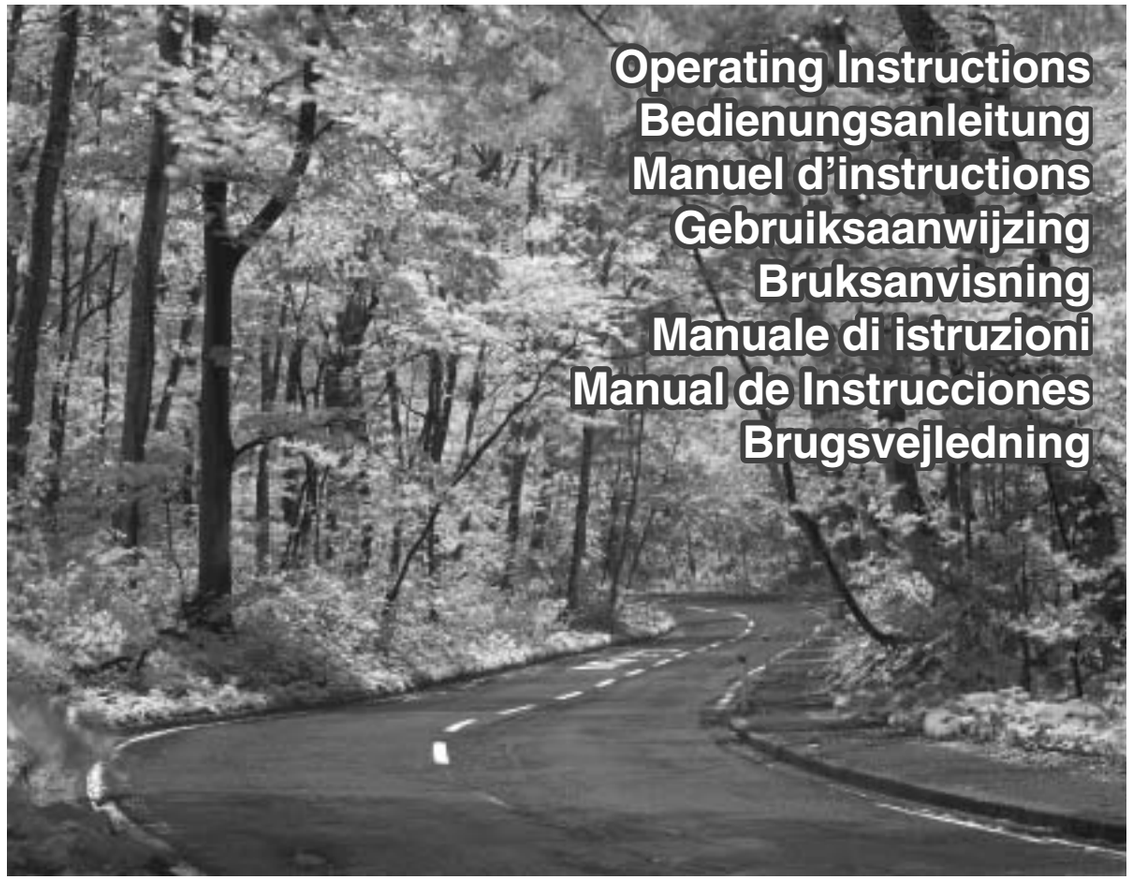
Panasonic

8-Disc DVD Changer

CX-DH801N



Operating Instructions
Bedienungsanleitung
Manuel d'instructions
Gebruiksaanwijzing
Bruksanvisning
Manuale di istruzioni
Manual de Instrucciones
Brugsvejledning

- Please read these instructions carefully before using this product and keep this manual for future reference.
- Bitte lesen Sie diese Bedienungsanleitung vor der Verwendung dieses Produktes aufmerksam durch und bewahren Sie sie danach für spätere Nachschlagzwecke sorgfältig auf.
- Prière de lire ces instructions attentivement avant d'utiliser le produit et garder ce manuel pour l'utilisation ultérieure.
- Leest u deze instructie alstublieft zorgvuldig door voor u dit product in gebruik neemt en bewaar deze handleiding voor later gebruik.
- Läs igenom denna bruksanvisning noga innan produkten tas i bruk. Spara bruksanvisningen för framtida behov.
- Si prega di leggere attentamente queste istruzioni prima di usare questo prodotto e di conservare questo manuale per usi futuri.
- Lea con atención estas instrucciones antes de utilizar el producto y guarde este manual para poderlo consultar en el futuro.
- Læs venligst denne brugsvejledning grundigt, inden dette produkt tages i brug og gem den til senere konsultation.

Matsushita Electric Industrial Co., Ltd.
Web Site : http://www.panasonic.co.jp/global/

YFM284C439ZA TAMACO0205-0 Printed in Taiwan

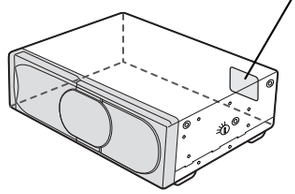
Safety Information

⚠WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE INCLUDED COMPONENTS.
NOT FOR USE WHERE VIDEO MONITOR IS VISIBLE TO DRIVER TO AVOID RISK OF SERIOUS INJURY OR POSSIBLE VIOLATION OF STATE LAWS.

Laser Product

Label Indications and Their Locations

CAUTION
LASER RADIATION
WHEN OPEN.
DO NOT STARE INTO BEAM.



CLASS 1 LASER PRODUCT
- APPAREIL À LASER DE CLASSE
- KLASS 1 LASER APPARAT
- LUOKAN 1 LASERPLAITE

Caution Label

CAUTION - LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM.	VAROITUS – LASERSÄTEILYVAARA AVATTAESSA. VARO ALTISTUMISTA SÄTEELLE.
VORSICHT – LASERSTRAHLUNG, WENN GEÖFFNET. VERMEIDEN SIE EIN AUSSETZEN GEGENÜBER DEM LASERSTRAHL.	FÖRSIKTIGHET– LASERSTRÅLNING I ÖPPNAT LÄGE. UNDVIK ATT UTSÄTTAS FÖR STRÅLEN.
ATTENTION – RAYONNEMENT LASER SI OUVERT, ÉVITER TOUTE EXPOSITION AU FAISCEAU.	ADVARSEL – LASERSTRÅLING. UNNGÅ EKSPONERING FOR STRÅLEN VED ÅPNING.
ADVARSEL – LASER UDSENDES NÅR DER ER ÅBNET. UNDGÅ UDSÆTTELSE FOR STRÅLER.	ВНИМАНИЕ – ЛАЗЕРНОЕ ИЗЛУЧЕНИЕ ПРИ ОТКРЫТИИ. ИЗБЕЖАТЬ ВОЗДЕЙСТВИЯ ЛАЗЕРНОГО ИЗЛУЧЕНИЯ.

⚠Caution: This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser products:
Wave Length: 650 nm
Laser Power: No hazardous radiation is emitted with safety protection.

Do not take apart this unit or attempt to make any changes yourself.
This unit is a very intricate device that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet.
Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.

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Safety Information

■ Read the operating instructions for the unit and all other components of your car audio system carefully before using the system. They contain instructions about how to use the system in a safe and effective manner. Panasonic assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.

■ This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operations. The meanings of the pictographs are explained below. It is important that you fully understand the meanings of the pictographs in order to use this manual and the system properly.

⚠ Warning — This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in severe injury or death.

⚠ Caution — This pictograph intends to alert you to the presence of important operating instructions and installation instructions. Failure to heed the instructions may result in injury or material damage.

⚠ Warning

Observe the following warnings when using this unit.

❑ **The driver should neither watch the display nor operate the system while driving.**
Watching the display or operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.

❑ **Use the proper power supply.**
This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

❑ **Keep batteries out of reach of infants.**
Batteries can be ingested, so keep them out of the reach of infants. If an infant ingests a battery, please seek immediate medical attention.

❑ **Protect the Deck Mechanism.**
Do not insert any foreign objects into the slot of this unit.

❑ **Do not disassemble or modify the unit.**
Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or an authorized Panasonic Service centre.

❑ **Do not use the unit when it is out of order.**
If the unit is out of order (no power, no sound) or in an abnormal state (has foreign matter in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.

❑ **The remote control unit should not lie about in the car.**
If the remote control unit lies about, it could fall on the floor while driving, get wedged under the brake pedal, and lead to a traffic accident.

❑ **Refer fuse replacement to qualified service personnel.**
When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service engineer. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.

Observe the following warnings when installing.

❑ **Disconnect the lead from the negative (–) battery terminal before installation.**
Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit.
Some cars equipped with the electrical safety system have specific procedures of battery terminal disconnection.
FAILURE TO FOLLOW THE PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

❑ **Never use safety-related components for installation, grounding, and other such functions.**
Do not use safety-related vehicle components (fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.) for wiring or fixing the product or its accessories.

❑ **Installing the product on the air bag cover or in a location where it interferes with airbag operation is prohibited.**

❑ **Check for piping, gasoline tank, electric wiring, and other items before installing the product.**
If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.

❑ **Never install the product in a location where it interferes with your field of vision.**

❑ **Never have the power cord branched to supply other equipment with power.**

❑ **After installation and wiring, you should check the normal operation of other electrical equipment.**
The continuation of their using in abnormal conditions may cause fire, electrical shock or a traffic accident.

❑ **In the case of installation to an airbag-equipping car, confirm warnings and cautions of the vehicle manufacturer before installation.**

❑ **Make sure the leads do not interfere with driving or getting in and out of the vehicle.**

❑ **Insulate all exposed wires to prevent short circuiting.**

⚠ Caution

Observe the following cautions when using this unit.

❑ **Keep the sound volume at an appropriate level.**
Keep the volume level low enough to be aware of road and traffic conditions while driving.

❑ **Do not insert or allow your hand or fingers to be caught in the unit.**
To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

❑ **This unit is designed for use exclusively in automobiles.**

❑ **Do not operate the unit for a prolonged period with the engine turned off.**
Operating the audio system for a long period of time with the engine turned off will drain the battery.

❑ **Do not expose the unit to direct sunlight or excessive heat.**
Otherwise these will raise the interior temperature of the unit, and it may lead to smoke, fire, or other damage to the unit.

❑ **Do not use the product where it is exposed to water, moisture, or dust.**
Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.

❑ **Be sure to keep the disc unit door closed to prevent dirt and dust from getting into the unit and causing possible malfunctions.**

❑ **The magazine cannot be inserted when a tray is not loaded into place. In this situation, forced insertion may cause damage to the unit and magazine.**

Observe the following cautions when installing.

❑ **Refer wiring and installation to qualified service personnel.**
Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Panasonic is not liable for any problems resulting from your own installation of the unit.

❑ **Follow the instructions to install and wire the product.**
Not following the instructions to properly install and wire the product could cause an accident or fire.

❑ **Take care not to damage the leads.**
When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, screws, and moving parts such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be run over sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

❑ **Use the designated parts and tools for installation.**
Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, a malfunction or fire.

❑ **Do not block the air vent of the unit.**
Blocking this part will cause the interior of the unit to overheat and may result in fire or other damage.

❑ **Do not install the product where it is exposed to strong vibrations or is unstable.**
Avoid slanted or strongly curved surfaces for installation. If the installation is not stable, the unit may fall down while driving and this can lead to an accident or injury.

❑ **Installation Angle**
The product should be installed in a horizontal position with the front end up at a designated angle, 0°, 22.5°, 45°, 67.5° or 90°.
The user should bear in mind that in some areas there may be restrictions on how and where this unit must be installed. Consult your dealer for further details.

❑ **Wear gloves for safety. Make sure that wiring is completed before installation.**

❑ **To prevent damage to the unit, do not connect the power connector until the whole wiring is completed.**

❑ **Do not connect more than one speaker to one set of speaker leads. (except for connecting to a tweeter)**

Observe the following cautions when handling the battery for the remote control unit.

- Use only specified battery (CR2025).
- Match the polarity of the battery with the (+) and (–) marks in the battery case.
- Replace dead battery as soon as possible.
- Remove the battery from the remote control unit when not using it for an extended period of time.
- Insulate the battery (by placing it in a plastic bag or covering it with vinyl tape) before disposal or storage.
- Dispose of the battery according to the local regulations.
- Do not disassemble, recharge, heat or short the battery. Do not throw a battery into a fire or water.

In case of battery leakage

- Thoroughly wipe the battery liquid off the battery case and insert new battery.
- If any part of your body or clothing comes into contact with battery liquid, wash it with plenty of water.
- If battery liquid comes into contact with your eyes, wash them with plenty of water and get immediate medical attention.

Panasonic welcomes you to our constantly growing family of electronic products owners.
We endeavor to give you the advantages of precise electronic and mechanical engineering, manufactured with carefully selected components, and assembled by people who are proud of the reputation their work has built for our company. We know this product will bring you many hours of enjoyment, and after you discover the quality, value and reliability we have built into it, you too will be proud to be a member of our family.

Use This Product Safely

For your safety, this system is designed not to see the moving picture while you are driving.

- Park your car in a safe place and use the parking brake lever before seeing the moving picture.
- For your safety, you must ensure that the connection of the parking brake lead is correct. (➡ page 50)

Features

❑ DVD Video / Video CD / CD (CD-DA, MP3) 8 Disc Changer

- DVD, Video CD and CD discs are changeable. The changer can also play an MP3.
- Mixture of different type discs (DVD Video, Video CDs and Audio CDs) is acceptable.* (➡ page 7)

❑ 5.1-channel system can be built up

- This unit has an optical digital output. To connect the optional digital surround processor (CY-AC300) with this unit, you can build the 5.1-channel system.

❑ Both NTSC and PAL format software are playable (➡ page 30)

❑ Both NTSC and PAL video format can be generated

- NTSC and PAL video formats output are always changeable by the one touch. (➡ page 30)

* Discontinuous arrangement of the same type discs may take a long time to change discs.

Principal Operation

Use the control unit with the ordinary operations

The basic functions of this DVD changer are also operable with the control unit and remote control unit for the control unit. You can operate the ordinary music CD (including MP3 discs) by using the control unit or its remote control unit.

Control unit

The control unit means a dependent Panasonic car audio unit with CD/DVD changer control. The control unit can operate only the basic functions of this DVD changer. For ordinary DVD operations, we recommend the use of the remote control supplied with this DVD changer. However, the functions listed below can be operated only with the control unit. Some units do not enable the “PLAY” and/or “PAUSE” function of this DVD changer.

- Power On/Off
- Source selection
- Volume Up/Down

The button assignment of function that can be operated with the control unit varies with the control unit. For details, please refer to “Corresponding Functions” on **page 40**.
Some old type car audio units cannot support a DVD changer. As for the changer compatibility, please consult your local dealer or your nearest Panasonic Service centre.

Remote control unit for control unit

Some control units have a remote control unit or is supplied the remote control unit as an option. The control units and their remote control units can also operate the basic functions of a DVD changer. These operable functions vary with the type of the control unit or the remote control unit to be used. For details, please refer to “Corresponding Functions” on **page 40**.

For a description of the functions, refer to the operating instructions for the control unit as well (CQ-C9901N, CQ-VD7001N etc.).

Discs that can be Played Back

❑ Disc Type

DISC	DVD	VCD (Video CD)	CD	CD-R/RW
Mark/logo	DVD VIDEO, DVD	COMPACT disc DIGITAL VIDEO	COMPACT disc DIGITAL AUDIO	COMPACT disc Recordable, COMPACT disc ReWritable
Disc Size	12 cm			
Video Format	NTSC / PAL			
Audio Format	LPCM, MPEG1, MPEG2, DTS*, Dolby Digital	LPCM, MPEG1	LPCM (CD-DA), MP3, DTS*	
Region No.	2 ALL			

Note:

- About CD-Rs and CD-RWs, refer to “Notes on CD-Rs/RWs”. (➡ page 15)
- Some copy-protected music CDs are not playable.
- DTS only works with optical outputs.*
- Even if you play a DTS DVD or a DTS CD, analog sound cannot be reproduced. (Only digital output comes out)
- **WMA files are not playable.**
- **This unit does not support 8 cm discs.**

❑ Discs not supported

The following discs are not played back on this product.

- DVD-Audio
- DVD-ROM
- DVD-R
- DVD+R
- DVD-RAM
- DVD+RW
- DVD-RW
- SVCD
- VSD
- CVD
- CD-G
- CD-ROM (except MP3)
- CD-RW (except MP3 and CD-DA)
- CD-R (except MP3 and CD-DA)
- SACD
- Photo CD
- CDV
- Hybrid SACD (except CD-DA)
- CD-TEXT (except for sound reproduction)
- Divx Video Discs
- CD-EXTRA (audio-only playback possible)
- DVDs with a region number other than “2” or “ALL”
- **Playing back a photo CD disc with this unit could damage the data that is recorded on the disc.**

❑ Symbols used on jackets

(Examples of such symbols include)

- 2 : Number of subtitle languages
- 2 : Number of audio tracks
- 3 : Number of angles

The numbers indicate the number of languages, tracks, angles, etc., recorded on the disc.

Screen size (H:V aspect ratio)

- 4:3 : 4:3 standard size
- LB : Letterbox (➡ page 30, 42)
- 16:9 wide size

16:9 LB : Playback in letterbox format on a standard screen (4:3).
16:9 PS : Playback in PAN & SCAN (pan and scan) (➡ page 30, 42) format on a standard screen (4:3).

Note: The size of the image that is displayed on the screen depends on the screen mode (“TV MODE” ➡ page 30), and on the screen size for the content on the disc.

❑ Region Management Information

This product is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this product, this product does not play the disc.

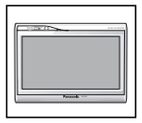
The Region number for this product is “2” or “ALL”.

Example:

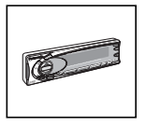
System Combination

❑ Optional system (Example)

This unit can be combined with other components like shown below. For more details, refer to the operating instructions for the connected devices.

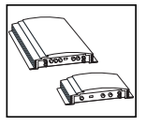


Color LCD Monitor: CY-VM1500EX



Digital Surround Processor: CY-AC300

WMA MP3 CD Player/Receiver with 512 Color OEL Display: CQ-C9901N



External Power Amplifier

In-Dash 7” Widescreen Color LCD Monitor/DVD Receiver: CQ-VD7001N

❑ To CQ-VD7001N users

How to switch the DVD changer display

In the DVD changer mode, the DVD changer display will appear automatically if you perform the following settings in the “INPUT/OUTPUT” menu previously.

① Press /touch **[MENU]**.

② Press/touch **[INPUT/OUTPUT]** → **[SELECT]** → **[INPUT SELECT]**.

③ Select **[CH INPUT]** → Select **[VTR]**. *

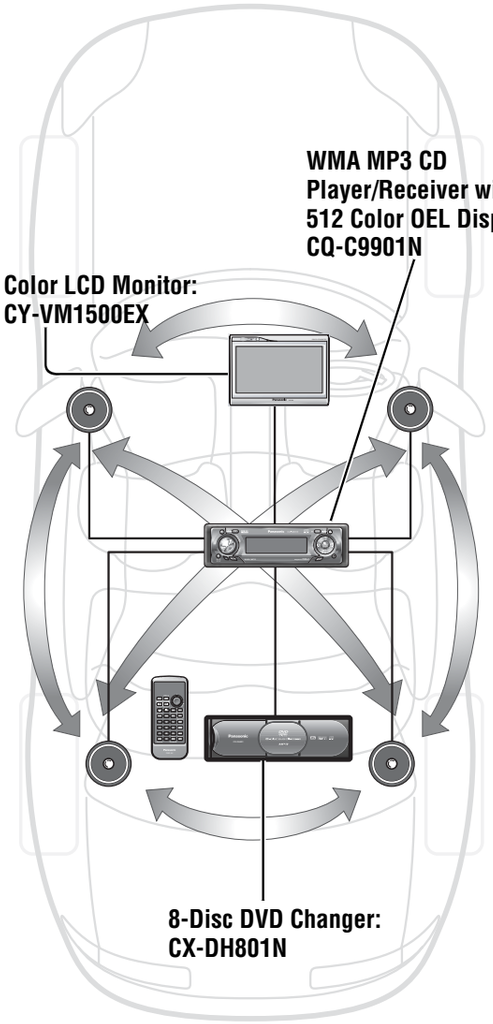
④ Press/touch **[END]** to exit from the menu.

* When connecting the DVD changer’s video output with VTR1 input of CQ-VD7001N.

❑ Basic System

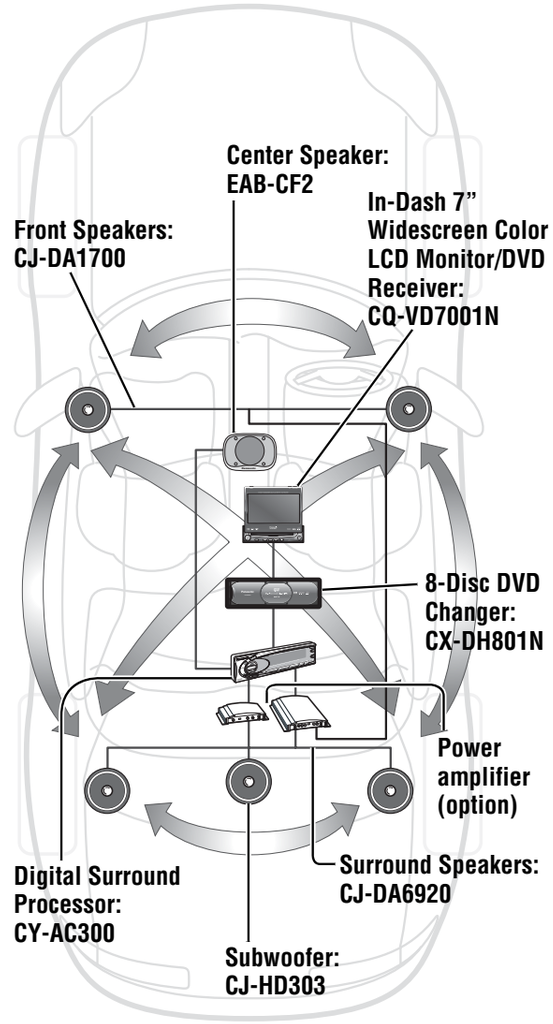
Connecting with the display monitor and 1DIN CD/Receiver with CD/DVD changer Control.

Just connecting a monitor display and this DVD Changer with your basic 1 DIN audio system, you do not only watch the DVD, but also listen to normal music CDs and MP3 discs.


WMA MP3 CD Player/Receiver with 512 Color OEL Display: CQ-C9901N
Color LCD Monitor: CY-VM1500EX
8-Disc DVD Changer: CX-DH801N

❑ 5.1-channel Surround System

This unit has an optical digital output. To connect the optional digital surround processor (CY-AC300) with this unit, you can build the 5.1-channels surround system in order to play DVD software in a way that creates “You are here” feel in a car.



Preparation

Components

1. DVD Changer — Q'ty: 1

2. Disc Magazine <VYQ3174> — Q'ty: 1

3. Remote Control Unit <YEFX999256A> — Q'ty: 1

4. Lithium battery (CR2025) — Q'ty: 1

5. Operating Instructions <YFM284C439ZA> — Q'ty: 1

6. Warranty Card, etc. — Q'ty: 1 set

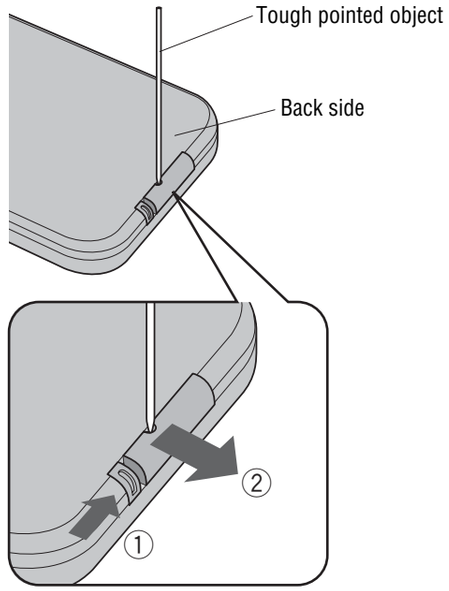
7. Installation Hardware (screws, cords, etc.) (➡ page 46)

Note:
- The number in parenthesis underneath each accessory part name is the part number for maintenance and service.
- Accessories and their parts numbers are subject to modification without prior notice due to improvements.

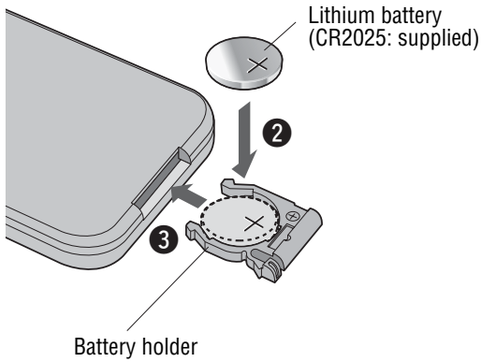
Remote Control Unit

Battery Installation
(Inserting/Replacing the Battery)

❶ Remove the battery holder.
With the remote control unit placed on a flat surface.
① Stick your thumbnail into the groove, and push the holder in the direction of the arrow, and at the same time.
② Pull it out in the direction of the arrow using a tough pointed object.



❷ Install the battery on the battery holder.
Set a new battery properly with its (+) side facing up as shown in the figure.
❸ Insert the battery holder back into its original position.



Battery Information

⚠Warning
- Keep a battery away from children to avoid the risk of accidents. If an infant ingests a battery, please seek immediate medical attention.

⚠Cautions
- Remove and dispose of an old battery immediately.
- Do not disassemble, heat or short a battery. Do not throw a battery into a fire or water.
- Follow local regulations when disposing of a battery.
- Improper use of a battery may cause overheating, an explosion or ignition, resulting in injury or a fire.

Note: Battery Information:
Battery Type: Panasonic lithium battery (CR2025)
Battery Life: Approximately 6 months under normal use (at room temperature)

Pictographs

In this manual, the pictographs shown below are used to indicate compatible types of discs and operating units.

Discs
- DVD : DVD video
- VCD : VCD (video CD)
- CD : CD
- MP3 : CD-R/RW's containing MP3 files

Control
- : Control unit or remote control for the control unit.
- : DVD changer's remote control

Settings and Checks

It is convenient for you to check and set the following setting prior to initial use.
Operations vary according to the disc. For details, refer to the guide provided with the disc.

TV TYPE (➡ page 30)
Setting:
Set the video format of your monitor display in "TV TYPE".
Check:
Check if "TV TYPE" is set to "PAL"(or "NTSC") when connecting a PAL (or an NTSC) monitor display.

TV MODE (➡ page 30)
Setting:
Choose the aspect ratio in "TV MODE". The standard aspect ratio of Panasonic is "WIDE".
Check:
Check if the picture on the monitor is displayed naturally.

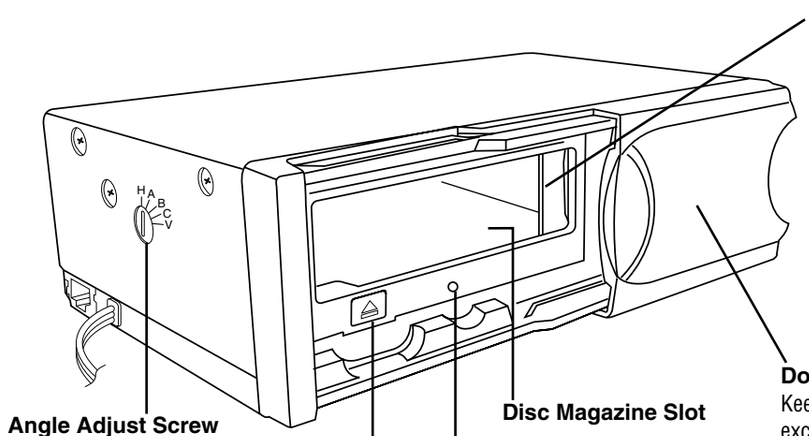
PREFERENCES (➡ page 32)
Setting:
Choose the first priority language of reproduction in "PREFERENCES".
*This setting is valid only when the DVD software contains the chosen language.
Check:
Check if the unit displays the subtitle or/and the disc menu or reproduce the sound in a language chosen by you.

COMPRESSION (DR COMP: Dynamic Range Compression) (➡ page 31)
Setting:
Set the dynamic range of sound reproduction in "COMPRESSION" menu.
To prevent the sound from reaching peak suddenly, we recommend you to set this value to "MINIMUM".
Check:
Check if you hear the low volume sound clearly when a DVD software having the large dynamic range is playing.

Names of Controls and Functions

DVD Changer, Disc Magazine and Tray

❑ DVD Changer Unit



Shutter for the deck mechanism protection
Push the magazine straightforward into the slot to make this shutter drawn properly.

Note: Do not touch this shutter.

Door
Keep this door closed except when loading or unloading a magazine. Dust can cause malfunction.

Disc Magazine Slot

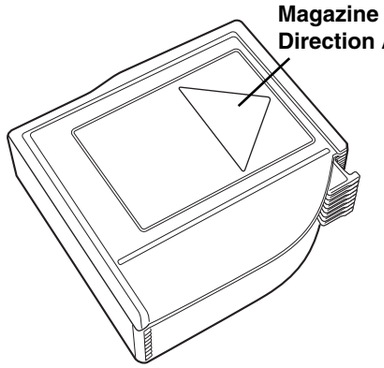
Angle Adjust Screw
Screw to adjust mounting angle.
One each on the right and left sides.
(➡ page 47 for details.)

Reset Switch
(➡ page 39)

Eject Button (⏏)
(➡ page 17)

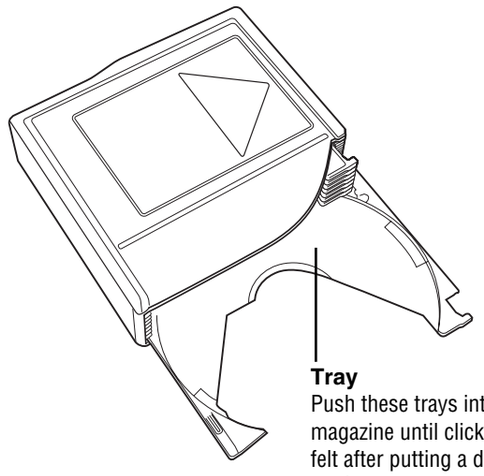
❑ Disc Magazine

Be sure to use the magazine and the trays supplied with the unit as an accessory (VYQ3174). **Any other magazines can not be used**.



Magazine Inserting Direction Arrow

Tray



Tray
Push these trays into the magazine until click is felt after putting a disc on the tray.

Note: Do not use 8 cm Discs.

Remote Control Unit

❑ General

Aim the remote control at the remote control sensor and operate it (see below note).

[MENU]
● Shows the menu screen. (➡ page 21)

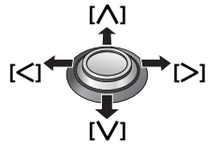
[SETUP]
● Shows the SETUP menu. (➡ page 28)

[0] to **[9]**
● Sets the language code. (➡ page 41)

[OSD]
● Displays information about each source on the screen. (➡ page 19)
● Toggles NTSC/PAL. (➡ page 30)

[∧] [∨]
● Selects (vertically) or adjusts an operation or item.

[<] [>]
● Selects (horizontally) or adjusts an operation or item.



[ENTER]
● Determines an operation or item.

[DISC∧] [DISC∨] (DISC/FOLDER)
● Selects a disc. (➡ page 18)

Notes on Remote Control and connections:
- Aim the DVD changer's remote control unit at the remote control sensor on the monitor display (In the case of connecting its Remote-out with DVD changer's Remote-In) or the included remote control sensor and operate it.
- If the control unit equips with the remote control sensor and forwards the remote control data to the DVD changer, you can operate it with aiming at the control unit.
- Never use both Remote-Ins (One is mini-pin, the other is RCA) at the same time. Failure to observe this may cause misoperation.
- Misoperation may occur if the remote control sensor is near other infrared equipment (Example: Infrared Headphone system). In this case, install the remote control sensor of your DVD Changer apart from other infrared equipment.

Names of Controls and Functions (Continued)

❑ Discs (DVD/VCD/CD/MP3)

Note: Operations vary according to the disc.

[⏮] [⏭] DVD VCD CD MP3
- Goes to beginning. (➡ page 20, 24)
- Fast forward/fast reverse (➡ page 20, 24)

[⏭] DVD VCD
- Slow playback (➡ page 20)

[■] (STOP) DVD VCD CD MP3
- Stops playback. (➡ page 20, 25)

[▮▮] (PAUSE) DVD VCD CD MP3
- Pause (➡ page 20, 25)

[►] (PLAY) DVD VCD CD MP3
- Playback (➡ page 18)

[RAND] (RANDOM) CD MP3
- Random play (➡ page 25)

[REP] (REPEAT) DVD VCD CD MP3
- Repeat play (➡ page 20, 25)

[SCAN] (SCAN) CD
- Scan play (➡ page 25)

[0] to [9] VCD
- Selects an item on the menu. (➡ page 21)

[0] to [9] DVD
- Title/chapter selection (➡ page 21)

[0] to [9] VCD CD MP3
- Direct track selection (➡ page 21, 24)
- Direct file/folder selection (➡ page 24)

[GRP] (TRACK) (TITLE/CHAPTER) DVD VCD CD MP3
- Title/chapter selection (➡ page 21)
- Direct track selection (➡ page 21, 24)
- Direct file/folder selection (➡ page 24)

[MENU] (TITLE) DVD
- Displays the DVD menu. (➡ page 21)
- Displays the Title menu. (➡ page 21)

[∧] [∨] [<] [>] DVD
- Selects an operation or item. (➡ page 21)

[ENTER] DVD VCD CD MP3
- Determines an operation or item. (➡ page 21, 24)

[ENTER] MP3
- Item selection (➡ page 24)

[∧] [∨] [<] [>] MP3
- Selects a folder or file. (➡ page 24)

[FOLDER∧] [FOLDER∨] (DISC/FOLDER) MP3
- Folder up/down (➡ page 24)

[SUB] (SUBTITLE) DVD
- Switching the subtitle language (➡ page 22)

[AUDIO] DVD
- Switching the audio language (➡ page 22)

[ANGLE] DVD
- Switching the angle (➡ page 22)

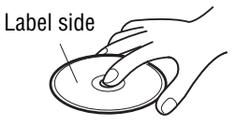
[AUDIO] VCD
- Switches between stereo or monaural sound. (➡ page 22)

[RET] (RETURN) DVD VCD
- Returns to the previous status. (➡ page 21)
- Displays the VCD (Video CD)'s menu. (➡ page 21)

DVD Changer Basics

Notes on Discs

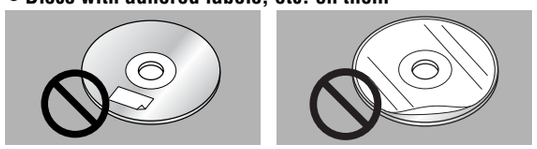
How to hold the disc
- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend disc.
- When not in use, keep disc in the case.



Do not use discs that fit any of the descriptions given below. Using these discs may damage the discs or cause the unit to malfunction.

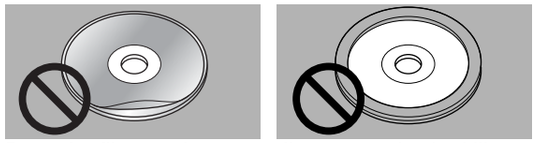
- **Special discs in a shape which is not round**

- **Discs with adhered labels, etc. on them**



Disc with adhered stickers or tape

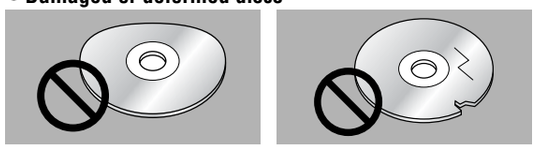
Labels created by a printer



Protective films or sheets

disc accessories (stabilizers, etc.)

- **Damaged or deformed discs**



Shoddily made discs

Discs with cracks, scratches or parts missing

Discs with burrs
Please remove the burrs before use.

Do not leave discs in the following places:
- Direct sunlight
- Near car heaters
- Dirty, dusty and damp areas
- On seats and dashboards

Disc cleaning

Use a dry, soft cloth to wipe from the center outward.
Do not attach any seals or labels to your discs.
Do not write on the disc label in a heavy pen or ballpoint pen.

<Right>

<Wrong>

Notes on CD-Rs/RWs

- You may have trouble playing back some CD-R/RW discs recorded on CD recorders (CD-R/RW drives), either due to their recording characteristics or dirt, fingerprints, scratches, etc. on the disc surface.
- CD-R/RW discs are less resistant to high temperatures and high humidity than ordinary music CDs. Leaving them inside a car for extended periods may damage and make playback impossible.
- The unit may not successfully playback a CD-R/RW that was made by the combination of writing software, a CD recorder (CD-R/RW drive) and a disc if they are incompatible with one another.
- This unit does not play CD-R/RW discs if the session is not closed.
- This player does not play CD-R/RW discs which contain other than CD-DA or MP3 data (Video CD, etc.).
- Be sure to observe the handling instructions of CD-R/RW discs.

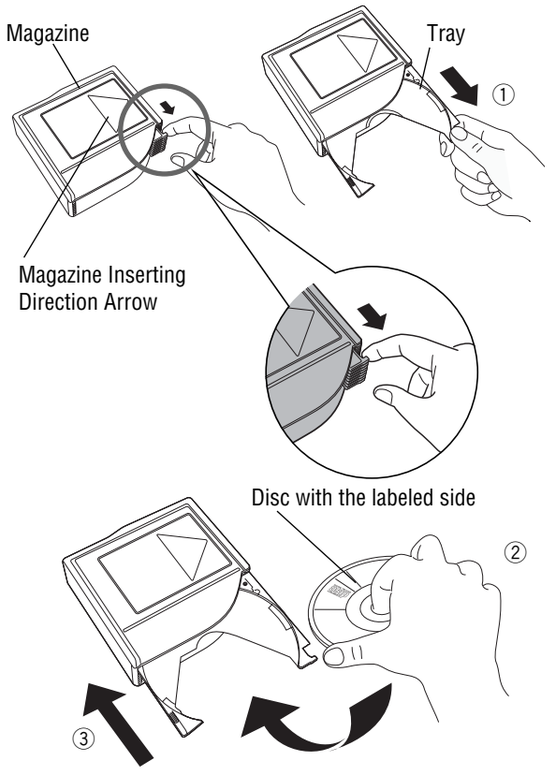
Loading and Removing a Disc

⚠**Caution:** Insert disc trays into the magazine firmly until they click. Failure to do so may cause disc clogging in the DVD changer unit or a malfunction of your DVD changer.

❑ To Load a Disc

① Place the disc magazine with the direction arrow facing upward, and pull out trays fully one after another from the magazine.
② Place a disc on the tray.
③ Push the tray straightforward into the magazine **until it clicks in position (See caution above)**.

Note:
- Be careful not to insert more than one disc on a single tray to protect the unit from any unexpected troubles.
- Please insert discs so that the same type of discs are arranged successively as you can. Discontinuous arrangement of the same type discs may take a long time to change discs.
- Be sure to use the magazine and the trays supplied with the unit as an accessory (VYQ3174). **Any other magazines can not be used**.
- Never use protect film or stabilizer commercially available as a disc accessory for the unit because it may cause trouble.
- Do not use irregularly-shaped disc. Failure to observe this may cause malfunction.



❑ To Remove a Disc

Pull out trays from the magazine to the stopper position, and take a disc from each of them by hand.
Be careful not to allow the disc to drop to the ground while taking it out.

Note: Carefully handle the magazine since discs may be disengaged and come out, if the magazine is placed with its disc-inserting port facing downward.

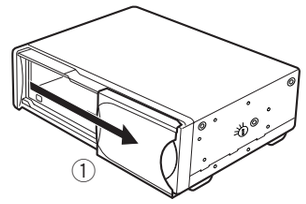
Note: The disc trays of the DVD changer are easy to remove from the magazine. Please watch out the trays are not slipped out from the magazine when installing a disc.
If one of the trays is slipped out and removed, insert the disc tray into the magazine gently until a click is felt.

Loading and Removing the Magazine

Note: Please wait for 10 seconds or more after connecting the battery cord to insert the disc magazine. Failure to observe this may cause a disc loading error.

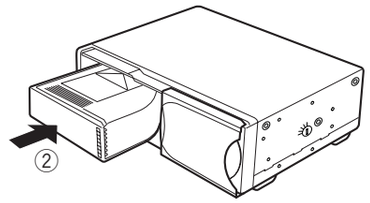
❑To Load the Magazine

① Slide the door to the right until it is fully open with a click.



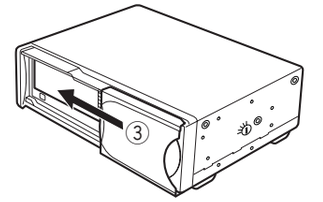
② Check the unit for its top and magazine inserting direction, and carefully push the magazine **straightforward** into it until you hear a click.

Note:
- When inserting the magazine, follow the sign marked on the magazine for the inserting direction.
- Make sure that all disc trays are loaded into place before magazine insertion.



③ Close the door fully until you hear a click.

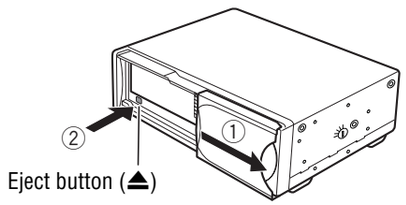
⚠**Caution:**
- Be sure to keep the disc unit **door closed** to prevent dirt and dust from getting into the unit and causing possible malfunctions.
- The magazine cannot be inserted when a tray is not loaded into place. In this situation, forced insertion may cause damage to the unit and magazine.



❑To Remove the Magazine

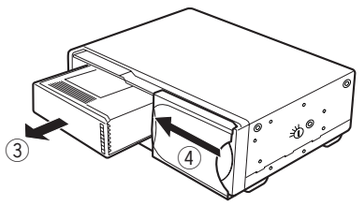
① Open the door.

② Press the eject button (⏏).
The magazine will eject automatically.



③ Pull the magazine straight in the arrow direction until it comes off the unit.

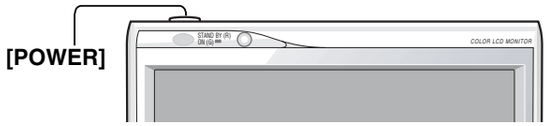
④ Close the door.



DVD Changer Basics (Continued)

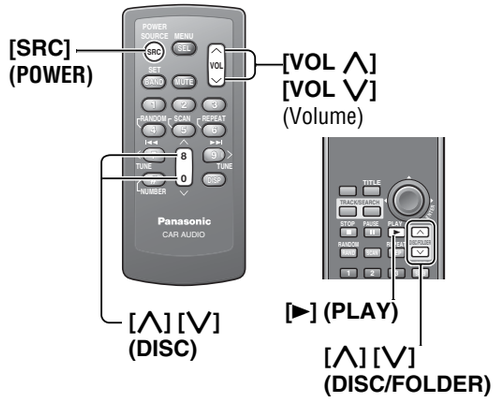
CD/DVD Changer Mode

Example: CY-VM1500EX Display unit



Example: CQ-C9901N Control unit

Example: EUR7641010 (option)
Remote Control for control unit



POWER

Turn your car's ignition switch to ACC or ON position, and then press the control unit's power key to turn on the control unit and the DVD changer.
Press **[POWER]** to turn on the monitor display as well when you watch the DVD software.

As for power on/off, please refer to the operating instructions of each unit.

Note: The remote control of the DVD changer has no power key. Use the power key on the control unit or the remote control for the control unit instead.

CD/DVD Changer Mode (Source selection)

Press **[SRC]** (Source)/**[MODE]** to change to CD/DVD changer mode and playback starts.

(Example: CQ-C9901N, CQ-VD7001N etc.)

Note: If you have not changed to the CD/DVD changer mode, you cannot listen to the sound of DVD changer when you press the **[►]** (PLAY) key on the DVD changer's remote control.

Disc Selection

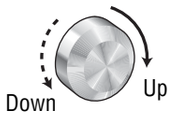
(Example: CQ-C9901N, CQ-VD7001N etc.)
[∧] or **[8]**: Next disc
[∨] or **[0]**: Previous disc

[DISC ∧] : Next disc
[DISC ∨] : Previous disc

Volume

Turn your control unit volume knob or press volume keys.

(Example: CQ-C9901N, CQ-VD7001N etc.)



[∧] (Volume): Up
or **[∨] (Volume)**: Down

Play DVD VCD CD MP3

Press **[►]** (PLAY) to start playback or resume from Pause or Stop.

Note:
- Because playback will not start automatically when your DVD changer is working alone, press **[►]** (PLAY) to start playback.
- Some control units do not have the "Play" function.

For a description of the functions, refer to the operating instructions for the control unit as well (CQ-C9901N, CQ-VD7001N etc.).

OSD (On Screen Display) Change and Indications

This unit has 9 types OSDs. The following operations allows you to change among OSDs.

❑ DVD/VCD (Video CD)

Prohibition
Input is not possible because a soundtrack, subtitle language or angle number which was not recorded on the disc has been selected or because the user has attempted to perform an operation which is not supported by the unit.

- Total time display (VCD) (default)
- Title elapsed time display (DVD) (default)

Press **[OSD]**.

- Track time display (VCD)
- Chapter elapsed time display (DVD)

Press **[OSD]**.

- No OSD (On Screen Display) is displayed (VCD)
- No OSD (On Screen Display) is displayed during playback (DVD)

On Screen Display (OSD) is available only when Play Back Control (PBC) is "OFF". (VCD)

Press **[OSD]**.

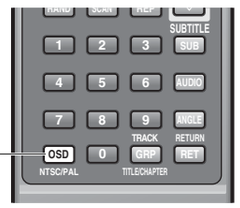
❑ CD/MP3

- Playing time is displayed. (CD) (cannot turn off)

- File/Folder selection list and playing time are displayed. (MP3) (cannot turn off)

Press **[OSD]**.

- ID3 tag (If available) is displayed during playback.



[OSD]
(On Screen Display)

Note: Displaying contents and their positions partly vary with each mode. Refer to the description of each mode for details.

DVD/VCD (Video CD) Playback

- Operations vary according to the disc. For details, refer to the guide provided with the disc.
- The pictographs DVD VCD CD and MP3 indicate the compatible types of disc.

Basic Operation

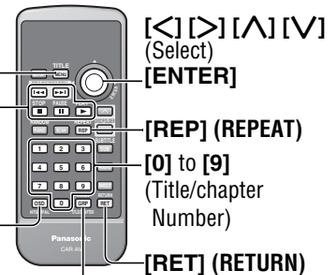
DVD/VCD mode display

Title number, Chapter number, Playing time, Disc number and etc.

*For the detail display, please refer to the next page.

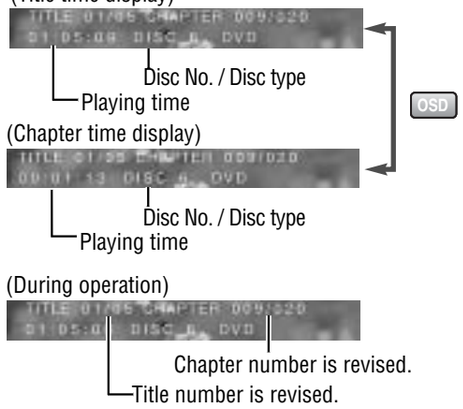
(Control unit LCD display example: After 2005 (ex. CQ-C9901/C9701N) type 1 DIN receiver)

Note: Refer to “DVD Changer Basic” as well. (➡ page 15)



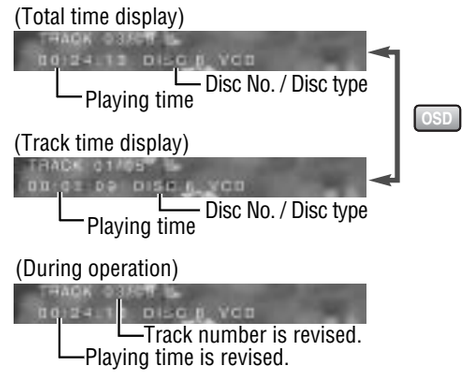
Chapter/Title Selection

DVD mode display



VCD (Video CD) mode display

(On Screen Display (OSD) is available only when Play Back Control (PBC) is “OFF”.)



Go to Beginning DVD VCD

[⏭]: next track/chapter
[⏮]: beginning of the current track/chapter
Previous track/chapter (Press twice.)

Note: When playing a DVD, there are cases where it is not possible to return to the start of a chapter that spans 2 titles. (➡ page 43)

Fast Forward/Fast Reverse DVD VCD

Press and hold
[⏭]: fast forward
[⏮]: fast reverse
Release to resume playback.
The speed gradually increases if the button is held down.

Stop DVD VCD

Press **[■] (STOP)**.
Press **[►] (PLAY)** again, and play will resume from the point where **[■] (STOP)** is pressed. (Continued playback function)
To cancel continued playback, press and hold **[■] (STOP)** for more than 2 seconds in the stop mode.

Pause DVD VCD

Press **[❚❚] (PAUSE)**.
To resume playback, press **[►] (PLAY)** again.

Note: Some control units do not have the “Pause” function.

Slow Playback DVD VCD

Press and hold **[⏭]** in the pause.
To resume normal playback, press **[►] (PLAY)**.
To pause, press **[❚❚] (PAUSE)** again.

Note: Reverse slow playback is not possible.

Repeat Play DVD VCD

Press **[REP] (REPEAT)** to repeat current chapter/track.
Press **[REP] (REPEAT)** again to cancel.

Press and hold **[REP] (REPEAT)** for more than 2 seconds to repeat current title/disc.
Press and hold **[REP] (REPEAT)** again to cancel.

Frame to Frame Play DVD VCD

Press **[❚❚] (PAUSE)** to go to next frame in the pause.
To resume normal playback, press **[►] (PLAY)**.

DVD Menu/VCD (Video CD) Menu DVD VCD

Selection of content, audio, subtitle, etc.

1. Press **[MENU] (TITLE)** during DVD playback.
   (For the VCD (Video CD) menu, press **[RET] (RETURN)** during playback.)
2. Press **[<]**, **[>]**, **[∧]** or **[∨]** to select the preferred menu.
   For the VCD (Video CD) with playback control (➡ page 33, 42), press **[0]** to **[9]** on the remote control.
3. Press **[ENTER]**.

To return to the previous status, press **[RET] (RETURN)**.

Title Menu DVD

Selection of the title to start playback.

1. Press and hold **[MENU] (TITLE)** for more than 2 seconds during playback.
2. Press **[<]**, **[>]**, **[∧]** or **[∨]** to select the preferred title.
3. Press **[ENTER]**.
   To return to the previous status, press **[RET] (RETURN)**.

Title/Chapter Selection DVD

Starting playback from a specific title/chapter.

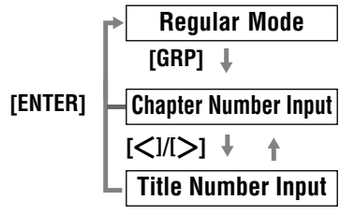
1. Press **[GRP] (TITLE/CHAPTER)** to select the input mode. The mode changes every time **[<]/[>]** is pressed.
2. Press **[0]** to **[9]** to input preferred title/chapter number.
3. Press **[ENTER]**. Playback will start.

Direct Track Selection VCD

1. Press **[GRP]** during playback.
2. Press **[0]** to **[9]** (Track number) to select a Track.
3. Press **[ENTER]**.

Note:

- If no operation is performed for 10 seconds after **[GRP] (TITLE/CHAPTER)** has been pressed, the display returns to the regular mode.
- If the title/chapter number is entered and no operation is performed for 10 seconds, the display returns to the regular mode.
- The direct track selection is available only when PBC is “OFF”.



Chapter Selection

lights in yellow

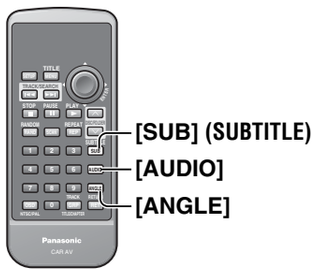
Title Selection

lights in yellow

DVD/VCD (Video CD) Playback (Continued)

- Operations vary according to the disc. For details, refer to the guide provided with the disc.
- The pictographs DVD VCD CD and MP3 indicate the compatible types of disc.

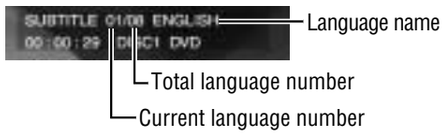
Useful Function



Switching the Subtitle Language DVD

Press **[SUB] (SUBTITLE)** during playback.

It is possible to change the subtitle language during play if the multiple languages are recorded on the disc.

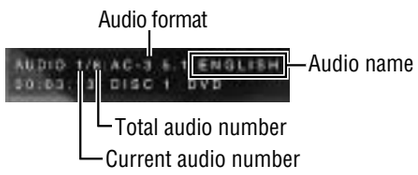


Note: There may be a brief delay before the subtitles appear.

Switching the Audio Language DVD

Press **[AUDIO]** during playback.

It is possible to change the audio language during play if multiple audio languages are recorded on the disc.



Switching the Angle DVD

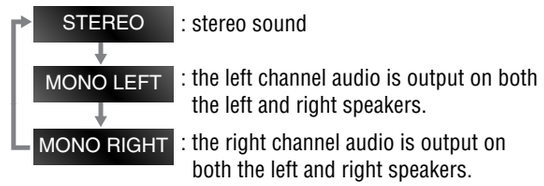
Press **[ANGLE]** during playback.

For DVDs which contain scenes which have been shot simultaneously from a number of different angles, the same scene can be viewed from each of these different angles during play.

Stereo and Monaural VCD

Press **[AUDIO]**

It is possible to switch the audio between stereo sound and monaural sound (L or R).


STEREO
: stereo sound
MONO LEFT
: the left channel audio is output on both the left and right speakers.
MONO RIGHT
: the right channel audio is output on both the left and right speakers.

Note:

- If no operation is performed for 2 seconds, the display returns to the regular mode.
- The language on the DVD settings take priority when the power is turned on or the disc is loaded. (➡ page 32)
- The number of languages depends on the disc. Some discs have only one language or have no language.

About DVD Video Wide Dynamic Range

⚠**Caution:** The sound of DVD audio/video covers a wide dynamic range of more than 100 dB. Thus, the reproduced sound volume of some DVD discs may be significantly low. When you increase the volume in this case, the sound may reach the peak level suddenly and it may lead to a traffic accident. To avoid such an accident, you can use the DR COMP (Dynamic Range Compression) function. This function can be set by the following procedure.

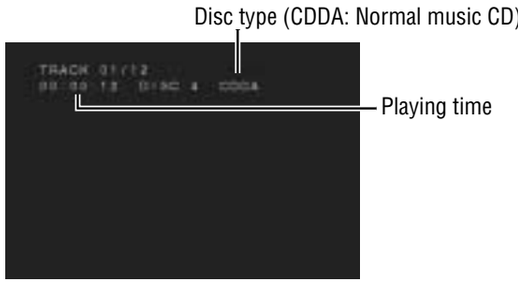
DR COMP (Dynamic Range Compression)

❶ Turn the volume back to the previous level (**decrease the volume**).
❷ Press **[SETUP]**.
❸ Press **[∧]** or **[∨]** to select AUDIO SETUP.
❹ Press **[∧]**, **[∨]**, **[<]** or **[>]** to select COMPRESSION ➡ **[ENTER]**.
❺ Press **[<]** or **[>]** to select MINIMUM. ➡ **[ENTER]**
❻ Readjust the volume level.
(➡ page 31)

CD/MP3 Playback

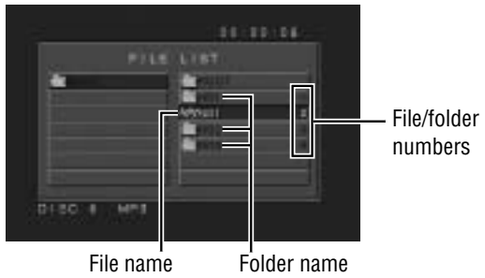
- The pictographs DVD VCD CD and MP3 indicate the compatible types of disc.
- In some functions, operations of the DVD changer may be different from those of the control unit (Example, CQ-C9901N, CQ-VD7001N etc.)

(Monitor display example: CD playback)



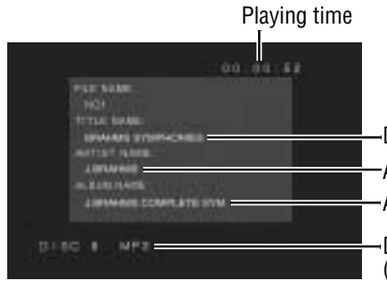
(Control unit LCD display example: After 2005 (ex. CQ-C9901/C9701N) type 1 DIN receiver)

(Monitor display Example: MP3 Navigation display)

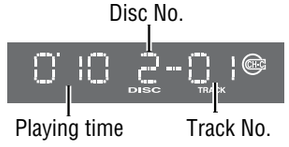


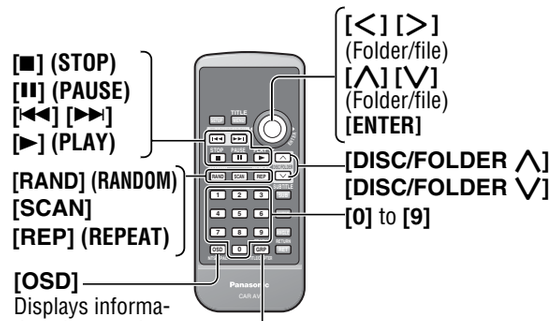
Note:
- It is not possible to display the whole trees and a file list in a folder.
- You cannot operate the Navigation mode during playback.
- File/folder numbers are used when the direct file selection is operating.

(Monitor display example: MP3 play back with ID3 tag)



(Control unit LCD display example: Before 2004 (ex. CQ-RD243N, CQ-C3300N etc.) type 1 DIN CD/cassette receiver)





Go to Beginning CD MP3

[►►|]: next track/file
[|◄◄]: beginning of the current track/file
Previous track/file (Press twice.)

Fast Forward/Fast Reverse CD MP3

Press and hold
[►►|]: fast forward
[|◄◄]: fast reverse
Release to resume playback.

File/Folder Selection MP3

1. Press **[<]**, **[∨]**, **[∧]**, **[>]** to select during playback stop.
2. Press **[ENTER]**.

Direct Track/File/Folder Selection CD MP3

1. Press **[GRP]** during playback.
2. Press **[0]** to **[9]** (Track/File/Folder number) to select a Track/File/Folder.
3. Press **[ENTER]**.

Folder Up/Down MP3

Press and hold **[DISC/FOLDER ∧]** for more than 2 seconds: next folder
Press and hold **[DISC/FOLDER ∨]** for more than 2 seconds: previous folder

Note: It may take a long time to move between folders.

Stop CD MP3

Press **[■] (STOP)**.
Press **[►] (PLAY)** again, and play will resume from the point where **[■] (STOP)** is pressed. (Continued playback function)
To cancel continued playback, press and hold **[■] (STOP)** for more than 2 seconds in the stop mode.

Pause CD MP3

Press **[❚❚] (PAUSE)**.
To resume playback, **[►] (PLAY)** or **[❚❚] (PAUSE)** again.

Note: Some control units do not have the “Pause” function.

Repeat Play CD MP3

- **Current Track/file:**
  Press **[REP] (REPEAT)**.
  Press **[REP] (REPEAT)** again to cancel.
- **Current Disc/folder:**
  Press and hold **[REP] (REPEAT)** for more than 2 seconds.
  Press and hold **[REP] (REPEAT)** again to cancel.

Random Play

- **All Tracks:** CD
  Press **[RAND] (RANDOM)**.
  Press **[RAND] (RANDOM)** again to cancel.
- **All Files in the Current Folder:** MP3
  Press **[RAND] (RANDOM)**.
  Press **[RAND] (RANDOM)** again to cancel.

SCAN Play CD

Press **[SCAN]** to scan all the tracks in the current CD-DA Disc.
Press **[SCAN]** again to cancel.

Notes on MP3

What is MP3

MP3 (MPEG Audio Layer-3) is a compression format of digital audio. MP3 is developed by MPEG (Motion Picture Experts Group). Using this compression format, you can record the contents of about 10 music CDs on a single CD media (This figures refer to data recorded on a 650 MB CD-R or CD-RW at a fixed bit rate of 128 kbps and a sampling frequency of 44.1 kHz).

Note:

- MP3 encoding and writing software is not supplied with this unit.
- CD writing software is not supplied with this unit.

Points to remember when making MP3 files

- High bit rate and high sampling frequency are recommended for high quality sounds.
- VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and sound may be skipped.
- Sampling frequency 16 kHz of MPEG-1 is not reproduced.
- The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software and writing software.
- It is recommended to set the bit rate to “128 kbps or more” and “fixed”.

⚠**Caution**: **Never assign the “.mp3” file name extension to a file that is not in the MP3 format. This may not only produce noise from the speaker damage, but also damage your hearing.**

Display Information

Displayed items

MP3

- Folder name
- File name

MP3 (ID3 tag)

- Album
- Title and Artist

Displayable characters

- Displayable length of file name/folder name: within 9 characters
- Displayable length of ID3 tag data: within 20 characters
- Name files and folders in accordance with the standard of each file system. Refer to the instructions of writing software for details.
- The unit recognizes only ASCII character set. Chinese characters, accented French characters and accented Spanish characters will be converted into an asterisk.
- Special characters can not be displayed.
- Characters may not be displayed properly depending on discs.

ASCII character set

A to Z, a to z, digits 0 to 9, and the following symbols:
(space) ! ” # $ % & ’ ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~

Special characters (example)

À Á Â Ã Å à á â ã å
Ä ä
Ò Ó Ô Õ Ö ò ó ô õ ö
Ù Ú Û Ü ù ú û ü

Note:

- With some software in which MP3 format files have been encoded, the character information may not be displayed properly.
- Undisplayable characters and symbols will be converted into an asterisk.
- It is recommended that the length of the file name be less than 8 characters (excluding the file extension).

- In some functions, operations of the DVD changer may be different from those of the control unit (example, CQ-C9901N, CQ-VD7001N etc.)

Recording MP3 files on a CD-media

- **You are recommended to minimize the chances of making a disc that contains both CD-DA files and MP3 files.**
- **If CD-DA files are on the same disc as MP3 files, the songs may not play in the intended order, or some songs may not play at all. Do not record CD-DA files and MP3 files on the same disc. Failure to observe this may cause either of these two types to be unplayable.**
- Do not record files other than MP3 files and unnecessary folder on a disc.
- The name of MP3 file should be added by rules as shown in the following descriptions and also comply with the rules of each file system.
- You may encounter trouble in playing MP3 files or displaying the information of MP3 files recorded with certain writing software or CD recorders.
- The file extension “.mp3” should be assigned to each file depending on the file format.
- This unit does not have the play list function.
- Although Multi-session recording is supported, the use of Disc-at-Once is recommended.
- Discs recorded by the packet writing software are not supported.

Supported file systems

ISO 9660 Level 1/Level 2, Joliet, Romeo
Note: Apple Extension to ISO 9660, Apple HFS, UDF 1.50, Mix CD, CD Extra are not supported.

According to the standard, “á”, “ç”, etc. can be used. However, this unit does not display those letters.

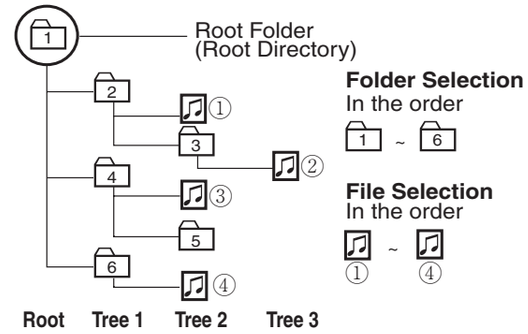
Folder selection order/file playback order

Maximum number of files/folders

- Maximum number of files: 999
- Maximum number of files in one folder: 255
- Maximum depth of trees: 8
- Maximum number of folders: 255 (Root folder is included.)

Note:

- This unit counts the number of folders irrespective of the presence or absence of MP3 file.
- Playback order may be different from other MP3 players even if the same disc is used.
- “ROOT” appears when displaying the root folder name.



A file/folder number in the figure above does not correspond with that of the direct file/folder selection.

Copyright

It is prohibited by copyright laws to copy, distribute and deliver copyrighted materials such as music without the approval of the copyright holder except for the purpose of enjoying the content personally.

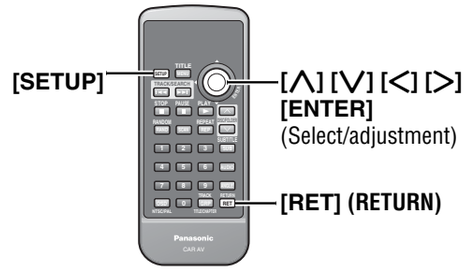
No warranty

The above description complies with our investigations as of December 2004. There is no warranty for reproducibility and displayability of MP3.

Settings: Setup Menu Overview

Tree 1	Tree 2	Description	Tree 3	Description	page
GENERAL SETUP	TV TYPE	Select a TV Type.	MULTI. SYSTEM	Auto detection	30
			NTSC	NTSC Standard	30
			PAL	PAL Standard	30
	TV MODE	Select a screen size.	PAN & SCAN	Pan & Scan size screen	30
			LETTER BOX	Letter Box size screen	30
			WIDE	Wide screen	30
AUDIO SETUP	COMPRESSION (DR COMP)	Dynamic Range Compression Level	MINIMUM	Minimum compression level	31
			STANDARD	Standard compression level	31
			OFF	Compression off	31
	OUTPUT LEVEL	Audio Output Level	MAX	Maximum audio output level	31
			MID	Medium audio output level	31
			MIN	Minimum audio output level	31
PREFERENCES	AUDIO	Audio Language	ENGLISH	Audio language	32
			JAPANESE	Audio language	32
			FRENCH	Audio language	32
			SPANISH	Audio language	32
			CHINESE	Audio language	32
			GERMAN	Audio language	32
			ITALIAN	Audio language	32
			OTHER	Audio language	32
	SUBTITLE	Subtitle Language, Subtitle ON/OFF	ENGLISH	Subtitle language	32
			JAPANESE	Subtitle language	32
			FRENCH	Subtitle language	32
			SPANISH	Subtitle language	32
			CHINESE	Subtitle language	32
			GERMAN	Subtitle language	32
			ITALIAN	Subtitle language	32
			OTHER	Subtitle language	32
			OFF	Subtitle off	32
	DISC MENU	Disc Menu Language	ENGLISH	Disc Menu language	33
			JAPANESE	Disc Menu language	33
			FRENCH	Disc Menu language	33
			SPANISH	Disc Menu language	33
			CHINESE	Disc Menu language	33
			GERMAN	Disc Menu language	33
			ITALIAN	Disc Menu language	33
			OTHER	Disc Menu language	33
	PBC	Playback Control On/Off	ON	Playback Control On	33
			OFF	Playback Control Off	33

Settings: Setup Operation



❑ MENU Operation

1 Setup Menu screen.

Press **[SETUP]**.

2 Selection (or adjustment).

Press **[Λ]**, **[V]**, **[<]** or **[>]** to select an item.

3 Determination.

Press **[ENTER]**.

Note:

- To go back to the previous menu, select RETURN and **[ENTER]**.
- To exit setup, press **[RET]**.

Settings: GENERAL

GENERAL | AUDIO | PREFERENCE

TV TYPE (TV standard format setting)

MULTI. SYSTEM

(Auto selection of a TV standard format)

The unit will transmit the same TV standard formatted signal as the output of playing video software.
(➡ page 7, 42)

Press and hold **[OSD] (NTSC/PAL)** for more than 6 seconds to toggle between NTSC and PAL forcibly.
Press and hold **[OSD] (NTSC/PAL)** for more than 6 seconds twice when the current mode is “NTSC”. (When NTSC formatted software is playing.)

NTSC

(NTSC)

The unit transmits the NTSC formatted signal in either case, playing an NTSC formatted video or a PAL formatted video.
(➡ page 7, 42)

Press and hold **[OSD] (NTSC/PAL)** for more than 6 seconds to toggle between NTSC and PAL forcibly.

PAL

(PAL)

The unit transmits the PAL formatted signal in either case, playing an NTSC formatted video or a PAL formatted video.
(➡ page 7, 42)

Press and hold **[OSD] (NTSC/PAL)** for more than 6 seconds to toggle between NTSC and PAL forcibly.

Default: PAL

Note:
- The use of PAL as “TV TYPE” is recommended.
- Make the video format of the DVD changer correspond to the video format of the monitor display.

TV MODE (Display aspect setting)

PAN & SCAN

(Pan & Scan display aspect)
Display aspect is set to Pan & Scan.
(➡ page 42)

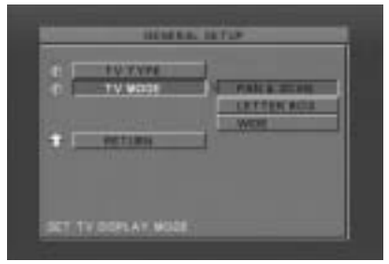
LETTER BOX

(Letter Box display aspect)
Display aspect is set to Letter Box.
(➡ page 42)

WIDE

(Wide Display aspect)
Display aspect is set to Wide.
(➡ page 43)

Default: WIDE



Settings: AUDIO

GENERAL | AUDIO | PREFERENCE

COMPRESSION (DR COMP: Dynamic range Compression)

MINIMUM

(Minimum audio dynamic range)

Greatest compression level, roughly equivalent to a TV broadcast.

STANDARD

(Standard audio dynamic range)

Compression level recommended by the software manufacturer for listening at low volume.

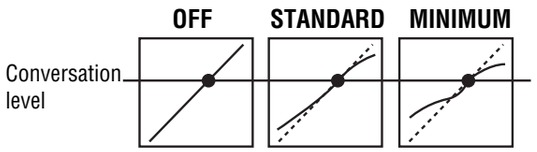
OFF

(Dynamic range compression off)

Dynamic range compression is set to off.
A movie theater dynamic range with no compression.

Default: OFF

Note: This function is effective for playback of **Dolby Digital/Dolby Surround DVD**. The words of an actor hardly audible during playback at a low volume, for example, will become easier to listen to by selecting “MINIMUM”.



OUTPUT LEVEL (Output Level setting)

MAX

(Maximum)

Audio output level will be set to Maximum.

MID

(Medium)

Audio output level will be set to Medium.

MIN

(Minimum)

Audio output level will be set to Minimum.

Default: MAX

Note: This setting should be performed only when audio output distortion occurs.

Settings: PREFERENCES

GENERAL AUDIO PREFERENCES

AUDIO (Audio Language Setting)

ENGLISH

Audio Language during the DVD video playback is set to English.

JAPANESE

Audio Language during the DVD video playback is set to Japanese.

FRENCH

Audio Language during the DVD video playback is set to French.

SPANISH

Audio Language during the DVD video playback is set to Spanish.

CHINESE

Audio Language during the DVD video playback is set to Chinese.

GERMAN

Audio Language during the DVD video playback is set to German.

ITALIAN

Audio Language during the DVD video playback is set to Italian.

OTHER

Audio Language will be set to Other language shown above. Input the 4-digit language code with referring to page 41.

Default: ENGLISH

Note: These adjustments being executed, playback will start from the beginning of a disc.

GENERAL AUDIO PREFERENCES

SUBTITLE (Subtitle Language Setting)

ENGLISH

Subtitle Language during the DVD video playback is set to English.

JAPANESE

Subtitle Language during the DVD video playback is set to Japanese.

FRENCH

Subtitle Language during the DVD video playback is set to French.

SPANISH

Subtitle Language during the DVD video playback is set to Spanish.

CHINESE

Subtitle Language during the DVD video playback is set to Chinese.

GERMAN

Subtitle Language during the DVD video playback is set to German.

ITALIAN

Subtitle Language during the DVD video playback is set to Italian.

OTHER

Subtitle Language will be set to Other language shown above. Input the 4-digit language code with referring to page 41.

OFF

Subtitle is not displayed.

Default: ENGLISH

Note:

- These adjustments being executed, playback will start from the beginning of a disc.
- A disc supporting closed captioning and subtitles may overlap each other on the screen. In this case, turn the subtitle off.

GENERAL AUDIO PREFERENCES

DISC MENU (Disc Menu Language Setting)

ENGLISH

Disc Menu Language used in the DVD video Menu is set to English.

JAPANESE

Disc Menu Language used in the DVD video Menu is set to Japanese.

FRENCH

Disc Menu Language used in the DVD video Menu is set to French.

SPANISH

Disc Menu Language used in the DVD video Menu is set to Spanish.

CHINESE

Disc Menu Language used in the DVD video Menu is set to Chinese.

GERMAN

Disc Menu Language used in the DVD video Menu is set to German.

ITALIAN

Disc Menu Language used in the DVD video Menu is set to Italian.

OTHER

Disc Menu Language will be set to Other language shown above. Input the 4-digit language code with referring to page 41.

Default: ENGLISH

Note:

- These adjustments being executed, playback will start from the beginning of a disc.
- This menu is not for selecting the menu language of this unit itself. This unit can support only English.

GENERAL AUDIO PREFERENCES

PBC (Playback Control On and Off)

ON

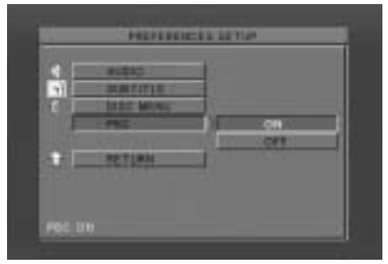
Playback control is set to On.

OFF

Playback control is set to Off.

Default: ON

Note: To enable the menu function on a VCD (Video CD), select ON in this setting.



Troubleshooting

If You Suspect Something Wrong

Check and take steps as described in the tables below.

If the suggestions below do not solve the problems, it is recommended to take the unit to your nearest authorized Panasonic Service centre. The product should be serviced only by qualified personnel. Please refer checking and repair to professionals. Panasonic shall not be liable for any accidents arising out of neglect of checking the unit or your own repair after your checking.

⚠ Warnings:
- Do not use the unit in an irregular condition, for example, no sound, or if it is emitting smoke or foul smell, as this may cause electric shock. Immediately stop using it and call the store where you purchased it.
- Never try to repair the unit by yourself due to risk of electrical injury and potential damage to electrical safety equipment.

■ Common

Problem	Possible cause ➡ **Possible solution**
No power	Car's ignition switch is not on. ➡**Turn your car's ignition switch to ACC or ON.**
	Cables are not correctly connected. ➡**Connect cables correctly.**
	Battery cable is not correctly connected. ➡**Connect the battery cable to the terminal that is always live.**
	Accessory cable is not correctly connected. ➡**Connect the accessory cable to your car's ACC source.**
	Grounding wire is not correctly connected. ➡**Connect the grounding wire to a metal part of your car.**
	Fuse is burnt. ➡**Call the store where you purchased the unit, or your nearest Panasonic Service centre and ask for fuse replacement.**
No sound	The volume is adjusted to zero. (Control unit) ➡**Raise the volume.**
	Mute is set to ON. (Control unit) ➡**Set it to OFF.**
	Cables are not correctly connected. ➡**Connect cables correctly.**
	Condensation (dew) ➡**Wait for a while before use.**
Only sound, no picture.	Parking brake (side brake) lead is not correctly connected. ➡**Connect the side brake connection lead correctly.**
	You did not pull the parking brake (side brake) lever. ➡**Pull the parking brake (side brake) lever.**
Noise Picture is not clear.	A mobile phone is used near the unit. ➡**Keep the mobile phone away from the unit.**
	The unit's grounding wire is not connected securely. ➡**Check the metal areas of the car chassis (body), and connect the grounding wire more securely.**

■ DVD, VCD (Video CD), CD, CD-R, CD-RW

The disc is inside but no sound.	The disc is upside down. ➡**Place the disc in the correct direction, the label side up.**
	The disc is dirty. ➡**Clean the disc, referring to the section on "Notes on Discs" (➡ page 15).**
	The unit can only play the following types of discs: DVD, VCD (Video CD), music CD and MP3.
CD sound skips, tone quality is low.	The disc is dirty. ➡**Clean the disc, referring to the section on "Notes on Discs" (➡ page 15).**
Sound skip due to vibration.	Unstable mounting. ➡**Mount the unit securely with the mounting parts, referring to the section on installation.**
The buttons do not work.	Some operations are not permitted with certain discs. (Refer to the guide provided with your disc.)
The magazine is not ejected.	● Disc is defective. ● Mechanical trouble. ➡**Press [⏏]. If failure persists, press the reset switch (➡ page 39). If normal operation is not restored, call the store where you purchased the unit or the nearest Panasonic Service centre.**

■ DVD

Cannot switch the audio language/subtitle language/angle.	● It is not possible to switch if the disc does not have multiple audio languages/subtitle languages/angles recorded on it. (Refer to the guide provided with your disc.) ● Some discs permit switching through a menu screen. ● Sometimes, switching angles is possible only with certain scenes.
The audio/subtitle language selected in the DVD settings is not used.	If audio or subtitles in the languages are not recorded on the disc, the audio or subtitles do not switch to that language. (Some discs permit switching through a menu screen. Refer to the guide provided with your disc.)

■ CD

CD text is not displayed.	This unit does not support CD-TEXT display. This is normal, not out of order.
A mix mode disc or a multi-sessions disc cannot be reproduced in some parts.	This unit ordinary plays files based upon only session data. And also, it can play only MP3 data on the disc recorded both CD-DA and MP3. ➡**Use single session disc. Do not record both CD-DA and MP3 on a disc.**

Troubleshooting (Continued)

MP3

No playback.	The disc does not conform to any of the file systems supported by this player. ➡**Insert a disc that conforms to the file systems supported by this player. (➡ page 27)**.
	The MP3 file is missing the ".mp3" file name extension. ➡**Make sure to add the ".mp3" extension to each MP3 file name. Take the unit to Service centre and ask for fuse replacement.**
It takes too long for playback to start.	The folders and files recorded on the disc are layered too much. ➡**As checking of files takes longer in this case, do not record any unnecessary folders or files other than MP3s on the disc.**
	Discontinuous arrangement of the same type discs in the changer magazine. ➡**Arrange the same type discs sequentially in the magazine.**
Poor recording quality, sound skipping	➡**The recording quality differs depending on the encoding software used, and on settings such as the bit rate. Set the bit rate within the range specified in the specifications chart (➡ page 57). It is recommended to set the bit rate to "128 kbps or more" and "Fixed".**
	High-speed writing was executed when MP3 data was recorded on the disc. ➡**Decrease writing speed as low as possible.**
Files are not played in the desired order.	Files or folders are not recorded in the desired playback order. ➡**Some writing software lets you specify the recording order by adding a prefix in the range of "01" - "99", etc. to the file name. For details refer to the user manual of your writing software.**
Folder/file name is not displayed correctly.	The disc does not conform to the file systems supported by this player. ➡**Insert a disc that conforms to the file systems supported by this player. (➡ page 27)**.
	➡**There may be a problem with your writing software or CD recorder (CD-R/RW drive). For details refer to the user manual of your writing software.**
	ID3 tags, File name and folder name are not displayed on the LCD display of host unit. ➡**This DVD Changer unit cannot display the disc information on the host unit. Watch them on the external display connected with the DVD Changer.**
File playing time is not displayed correctly.	You turned off the ignition switch of the car during playback. ➡**Playing another file will return the file playing time to normal.**

Remote Control

Buttons are invalid for operation.	Battery poles (+) (–) are reversed. ➡**Insert the battery correctly.**
	Wrong battery. ➡**Check the battery.**
	Battery has run down. ➡**Replace the battery.**
	Remote control is in the wrong direction. ➡**Direct the remote control at remote control sensor on the display unit.**
	Direct sunlight disturbs the transmission of remote control. ➡**Move your car to prevent the car from being exposed to direct sunlight, or install the remote control sensor on another place to keep it out of direct sunlight.**

Sound Settings

No sound from left, right, front, or rear speaker.	Cables are not correctly connected. ➡**Connect the cables correctly.**
Left and right sounds are reversed.	The speaker leads are connected in reverse between right and left. ➡**Connect the speaker wires to the correct one.**

Display Setting

The display screen is not stable and/or colored, or rotates improperly.	The video format of the DVD changer does not correspond to the video format of the monitor display. ➡**Make the video format of the DVD changer correspond to the video format of the monitor display.**

Troubleshooting (Continued)

Error Display Messages

■ DVD Changer (Control unit / Monitor display)

Problem	Possible cause ➡ **Possible solution**
- E 1 - (Control unit display) (Next disc will be selected automatically after 5 seconds.)	Disc is dirty, or is upside down. ➡**Check the disc.**
- E 2 - (Control unit display) (Next disc will be selected automatically after 5 seconds.)	Disc has scratches. ➡**Check the disc.**
- E 3 - (Control unit display) (Next disc will be selected automatically after 5 seconds.)	No operation by some cause. ➡**Once turn the ACC switch off, and turn it on again. And, push the reset switch (➡ next page). If these operations fail, call the store where you purchased the unit or the nearest Panasonic Service centre.**
- E 6 - (Control unit display) (REGION ERROR etc.) (Next disc will be selected automatically after 5 seconds.)	An attempt was made to play a disc with a region number other than “2” or “ALL”. Or, the unknown error related with discs occurs. ➡**Check the disc.**
NO DISC	No disc is in the changer. ➡**Insert disc into the disc tray.**
NO MAGAZINE	No magazine is in the changer. ➡**Load the changer with disc-loaded magazine.**

■ DVD Changer (Monitor display)

PLAYBACK ERROR (Next disc will be selected automatically after 5 seconds.)	Disc is dirty, or is upside down, or has scratches. ➡**Check the disc.**
MECHANICAL ERROR	The mechanism of DVD changer has failed. ➡**Once turn the ACC switch off, and turn it on again. And, push reset switch (➡ next page). If these operations fail, call the store where you purchased the unit or the nearest Panasonic Service centre.**
THIS TYPE OF DISC CANNOT BE PLAYED. (Next disc will be selected automatically after 5 seconds.)	The type of disc that is selected is not supported. ➡**Check the disc.**
REGION ERROR (Next disc will be selected automatically after 5 seconds.)	An attempt was made to play a disc with a region number other than “2” or “ALL”. ➡**Check the disc.**

Note: There may be cases when the disc numbers affected by an error are displayed before E1 and E2.

Maintenance

Product Servicing

If the suggestions in the charts do not solve the problem, we recommend that you take it to your nearest authorized Panasonic Service centre. The product should be serviced only by a qualified technician.

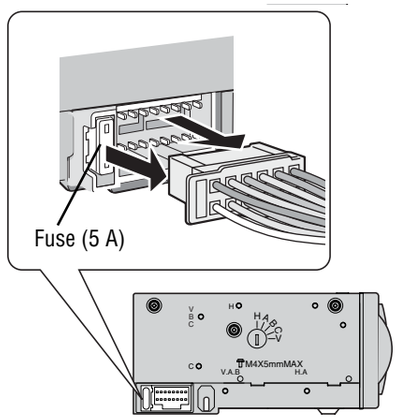
Caution on Cleaning

Your product is designed and manufactured to ensure a minimum of maintenance. Use a dry soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvents.

Product Servicing

Use fuses of the same specified rating **(5 A)**. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the unit.

If the fuse blows frequently, there may be something wrong with the unit. Consult your nearest Panasonic Service centre for service.



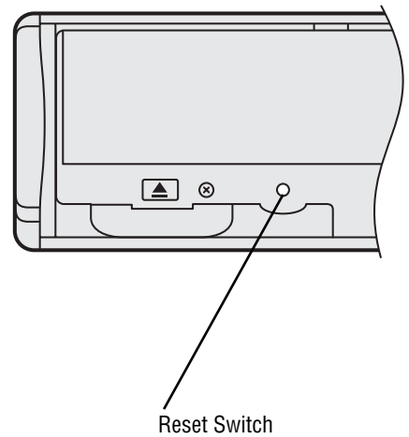
If the Unit Begins to Malfunction...

Reset switch

Insert a hard, slender stick **straightforward** into the hole and push the switch.

Important

Push the switch only when the unit fails to operate with any buttons. (Stored settings and adjustments are not cleared.) If the unit fails to return to normal condition, call the nearest Panasonic Service centre and ask for repairs.



Corresponding Functions

Corresponding keys among the DVD changer remote control, the control unit, and its remote control.

Function	Remote control (DVD Changer)	Control Unit	Remote control (control unit)
Next track/chapter	▶▶|	> ▶▶|	> ▶▶
Previous track/chapter	|◀◀	< |◀◀	< ◀◀
Fast Forward	▶▶|	> ▶▶|	> ▶▶
Fast Reverse	|◀◀	< |◀◀	< ◀◀
Play	▶	[MODE] / [SRC] [BAND] (PAUSE/PLAY)	[MODE] / [SRC] [BAND] (PAUSE/PLAY)
Stop (Resume)	■	Not available	Not available
Pause	II	[BAND] (PAUSE/PLAY)	[BAND] (PAUSE/PLAY)
Slow Playback	▶▶|	Not available	Not available
Return	[RET]	Not available	Not available
Repeat	[REP]	[REPEAT]	[REPEAT] (6)
Random	[RAND]	[RANDOM]	[RANDOM] (4)
Scan	[SCAN]	[SCAN]	[SCAN] (5)
Disc up	[DISC ∧]	[DISC ∧]	∧
Disc down	[DISC ∨]	[DISC ∨]	∨
Next file (MP3)	▶▶|	> ▶▶|	> ▶▶
Previous file (MP3)	|◀◀	< |◀◀	< ◀◀

Note: Some operations are not allowed in some units.

Example: WMA MP3 CD Player/Receiver with 512 Color OEL Display CQ-C9901N

Example: In-Dash 7" Widescreen Color LCD Monitor/DVD Receiver CQ-VD7001N

Example:
Remote Control EUR7641010

Language Code List

Preferences menu

In "OTHER" cases... (➡ page 32, 33)

① Input the 4 digits language code by pressing the buttons **[0]** to **[9]** on the remote control.
② Press **[ENTER]** to set.

Note: To exit setup, press **[RET]**. (The setting is not reflected when **[ENTER]** is not pressed.)

Code	Language Name
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Ameharic
6582	Arabic
6583	Assamese
6589	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian

Code	Language Name
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Georgian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian, Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Norwegian
7982	Oriya
8065	Panjabi
8076	Polish
8083	Pashto, Pushto
8084	Portuguese
8185	Quechua

Code	Language Name
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruba
9072	Chinese
9085	Zulu

Definition of Terms

Digital audio output connector (Optical)
The digital audio output connector (optical) converts electrical signals into optical signals and transfers them to the amplifier. Consequently, it has a number of features including its immunity from electrical interference from external sources and its ability to prevent the generation of noise and its minimal effect on the external environment.

Dolby Digital
This fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback. The number of channels that are recorded depends on the software. (1 to 5.1 channels)

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Dolby Pro Logic
This format records signals from four channels [Front Left (L), Front Right (R), Center (C), and Monaural Surround (S)] in two channels, decodes those channels through a Dolby Pro Logic decoder, and then outputs the resulting signals in four channels.

DTS
This format requires more data than Dolby Digital, and provides higher quality surround playback.
Similar to Dolby Digital, this fully discrete format divides the music signals into 5.1 channels: Front Left (L), Front Right (R), Center (C), Left Surround (LS), Right Surround (RS) and Subwoofer (SW: 0.1 channel) for recording and playback.

Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issues and pending. “DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc. © 1996 Digital Theater Systems, Inc. All rights reserved.

Interactive DVD
An interactive DVD is DVD software which includes multiple angles, multiple plot endings, etc.

Letterbox screen
This refers to a screen on which the playback picture of wide-screen DVDs or VCD (Video CD)s appears with black bands running along the top and bottom.

LPCM (Linear PCM audio)
In this format, the audio signal is converted to digital data and recorded in two channels without compression. Because the capacity of a DVD disc is large, it can store more data with better accuracy than a CD.

NTSC
NTSC (National Television Standard Committee format) is a color television-broadcasting format for ground waves proposed by National Television Standard Committee in 1953. This format is popular in North America, Middle-South America and Japan. The resolution of horizontal trace line is 525 and frame number per second is 30.

PAL
PAL (Phase Alternation by Line) is a color television-broadcasting format for ground waves developed in Germany on 1967. This format is popular in Western Europe, South America, Africa, China and other Asian countries. The resolution of horizontal trace line is 625 (525 in Brazil) and frame number per second is 25.

Pan & Scan screen
This refers to a screen on which the playback picture of wide-screen DVDs or VCD (Video CD)s is cut off at the left and right sides.

Playback control (VCD (Video CD))
If the VCD (Video CD) has “With Playback Control” or others written on the disc surface or on the jacket, the scenes or information to be viewed (or listened to) can be selected interactively with the screen by looking at the menu shown on the screen.
In these instructions, playback using the menu screen is referred to as the “menu play” for video CDs. This player supports Video CDs with playback control.

Title, Chapter (DVD)
DVDs are divided into some large sections (titles) or some small sections (chapters). Each section is numbered; these numbers are called “Title number” or “Chapter number”.

Title 1			Title 2	
Chapter 1	Chapter 2	·····	Chapter 1	·····

Track (Video CD/CD)
Video CDs or CDs are divided into some sections (tracks). Each section is numbered; these numbers are called “Track number”.

Track 1	Track 2	Track 3	Track ·····

WIDE
“WIDE” means a 16 : 9 ratio screen. The standard size of Panasonic Car AV equipment adopts this ratio screen. Therefore, this unit sets the default value to “WIDE“ in “TV MODE”.

“DTS” and “DTS Digital Out” are trademarks of Digital Theater Systems, Inc.

U.S. Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 5,315,448; and 6,516,132.
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Installation

WARNING

❒ This installation information is designed for professional installers with knowledge of automobile electrical safety systems and is not intended for non-technical, do-it-yourself individuals. It does not contain instructions on the electrical installation and avoidance of potential harm to air bag, anti-theft and ABS braking or other systems necessary to install this product.

Any attempt to install this product in a motor vehicle by anyone other than a professional installer could cause damage to the electrical safety system and could result in serious personal injury or death.

❒ If your car is equipped with air bag and/or anti-theft systems, specific procedures may be required for connection and disconnection of the battery to install this product.

Before attempting installation of this electronic component against the manufacturer's recommendation, you must contact your car dealer or manufacturer to determine the required procedure and strictly follow their instructions.

FAILURE TO FOLLOW THE PROCEDURE MAY RESULT IN THE UNINTENDED DEPLOYMENT OF AIR BAGS OR ACTIVATION OF THE ANTI-THEFT SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.

❑ Overview

This product should be installed by a professional. However, should you decide to install the product against the manufacturer's recommendation, these operating Instructions do not contain electrical installation instructions. You must contact your car dealer or manufacturer for electrical connection instructions to avoid possible damage to your electrical safety systems and resulting injury or death. **(Please refer to the "WARNING" statement above).**
Your next step is to decide where to install the unit. The instructions in these pages will guide you through the remaining steps:

- Identify and label the car wires.
- Connect the car wires to the wires of the power connector.
- Install the unit.
- Check the operation of the unit.

If you encounter problems, please consult your nearest professional installer.

⚠Warning: This product is designed for operation with a negative grounded 12 V DC battery system. Never operate this product with other battery systems, especially a 24 V DC battery system.

Before you begin installation, look for the following items which are packed with your unit.

- **Warranty Card** …… Fill this out promptly.
- **Panasonic Service centre for Service Directory** …… Keep for future reference in case the product needs servicing.
- **Installation Hardware** …… Needed for installation.

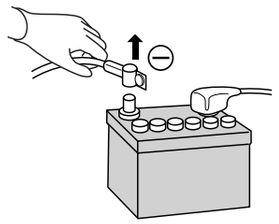
❑ Precautions

⚠Cautions:

- We strongly recommend that you wear gloves for installation work to protect yourself from injuries.
- When bending the mounting tab of the mounting collar with a screwdriver, be careful not to injure your hands and fingers.

- Disconnect the cable from the negative (–) battery terminal (see caution at right).
- The product should be installed in a horizontal position with the front end up at a designated angle, 0°, 22.5°, 45°, 67.5° or 90°.

⚠Warning: If your car is equipped with air bag and/or anti-theft systems, specific procedures may be required for connection and disconnection of the battery to install this product.
Before attempting installation of this electronic component against the manufacturer's recommendation, you must contact your car dealer or manufacturer to determine the required procedure and strictly follow their instructions.
FAILURE TO FOLLOW THE PROCEDURE MAY RESULT IN THE UNINTENDED DEPLOYMENT OF AIR BAGS OR ACTIVATION OF THE ANTI-THEFT SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.



⚠Caution: Various settings that have been stored in the memory in other on-board equipment (car navigation etc.) may be lost if the battery terminals are disconnected.
Therefore, we recommend you to make a record of or to back up the settings before disconnecting the terminals.
After completing installation of the main unit, set up the equipment again according to the settings.

This unit should be professionally installed. In case of difficulty, please consult with your nearest professional installer.

1. This unit only operates in a 12 V DC negative ground system.
2. Follow the Electrical Connections carefully (➡ page 49-55). Failure to do so may result in damage to the unit.
3. Connect the power lead after all other connections are made.
4. Be sure to connect the battery lead (yellow) to the positive terminal (+) of the battery or fuse block (BAT) terminal.
5. Insulate all exposed wires to prevent short circuiting.
6. Secure all loose wires after installing the unit.
7. Please carefully read the operating and installation instructions of the respective equipment before connecting it to this unit.

⚠Caution: Please follow the laws and regulations of your state, province or country for installation of the unit.

Installation (Continued)

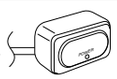
Please check that all installation hardware listed below are included.

❑ Installation Hardware (For Mounting)

No.	Item	Diagram	Qty
①	Hex. Bolt with Double Washers (4 mm ϕ x 8 mm) YJT034C707ZA		4
②	Base Bracket YFG014C920ZC		2
③	Hex. Nut (5 mm ϕ) YJN014C703ZA		4
④	Mounting Bracket (L) YFX214C387ZA		1
⑤	Mounting Bracket (R) YFX214C386ZA		1
⑥	Double-Faced Adhesive Tape YFX9994C725ZA		2

Note: For installation, use the screws shorter than 5 mm if you should use the screw other than above Hex. Bolt with Double Washers ①.

❑ Installation Hardware (For wiring)

No.	Item	Diagram	Qty
⑦	Extension Cord (5 m) (BRAKE / VIDEO-CONT / ACC / BATT/ DIN / RCA / GND) YAJ024C107ZA		1
⑧	Clip Connector YEAT034C012		1
⑨	Remote Control Sensor (cable length 3 m) YEFX9991540		1 set
⑩	Remote Control Sensor Extension Cord (3 m) YAJ074C024ZA		1
⑪	Cord Clamp (for Remote Control Sensor) YEFX007570		2
⑫	Double-Faced Adhesive Tape (for Remote Control Sensor) YFX994C124ZA		1

Note:
- The number in parenthesis underneath each accessory part name is the part number for maintenance and service.
- Accessories and their parts numbers are subject to modification without prior notice due to improvements.

Installation Location

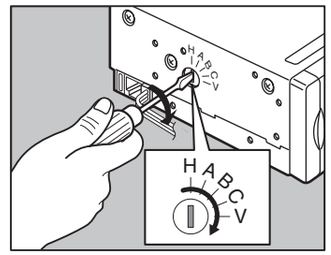
Avoid installing the unit in the following locations.
- In areas hit by direct sunlight, hot air from the heater, or any other high-temperature location.
- In an area where you cannot firmly secure the unit, or in high-vibration areas.
- In areas with high humidity or high dirt and dust levels.

Select the mounting angle

Default: H

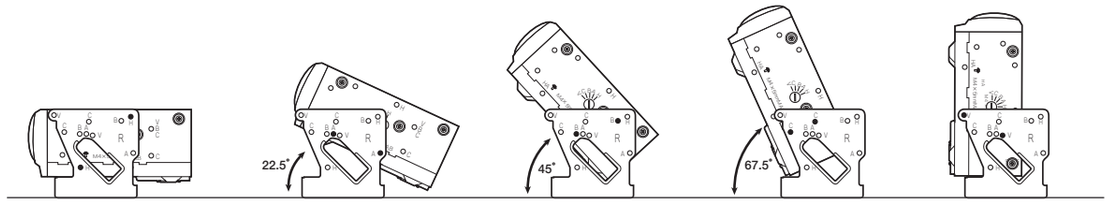
Use a screwdriver to set the angle-adjusting screw to the position “V” or “H”, depending on the mounting angle selected.

This unit can be set in the five directions: horizontal, vertical, and the positions A (22.5°), B (45°), and C (67.5°). Mount the unit by referring to the figures below.

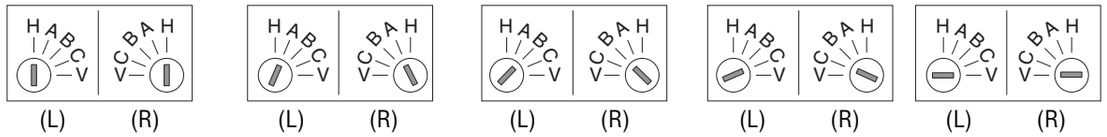


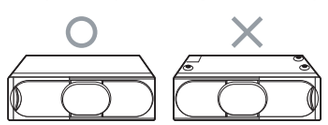
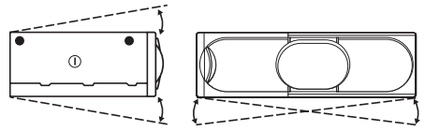
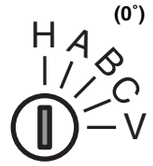
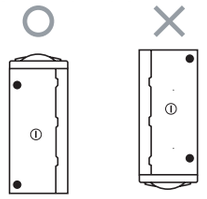
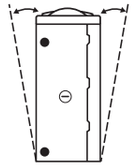
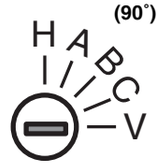
Adjust the angle with a screw driver

⚠ Cautions:
- Set the angle-adjusting screw to the same angle as the unit is installed.
- Set the holes to the same positions for both left and right.



H (0°) **A** (22.5°) **B** (45°) **C** (67.5°) **V** (90°)

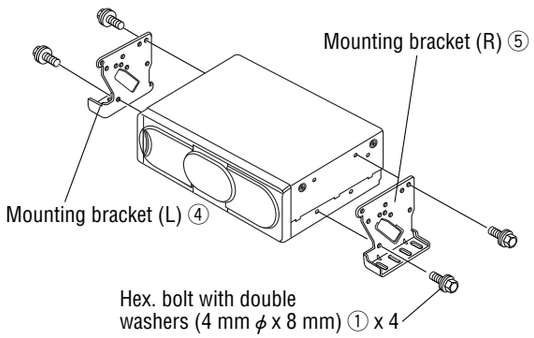


	Installation	Angle	Selecting a mounting angle
Horizontal:	**Typical horizontal installation** (Normal) (Up-side down) 	 **Limit to less than 10 degrees.**	(0˚)  **Set the screw to the same positions for both left and right.**
Vertical:	**Typical vertical installation** (Normal) (Up-side down) 	**Do not tilt in this direction. Limit to less than 10 degrees.** **Limit to less than 10 degrees.** 	(90˚)  **Set the screw to the same positions for both left and right.**

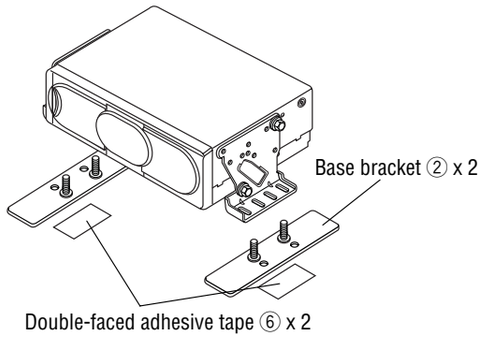
Installation (Continued)

Typical horizontal installation

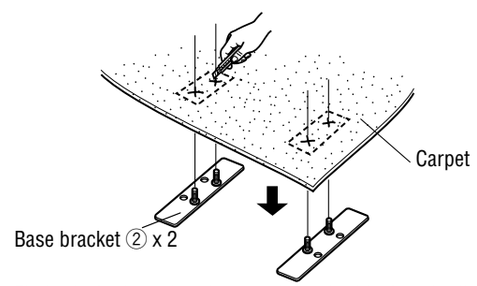
1 Mount a mounting bracket (L) or (R) on either side of the control unit with a hex. bolt together with double washers (4 mm ϕ x 8 mm).



2 Select a location where the unit should be mounted. Fix the base brackets with a double-faced adhesive tape.

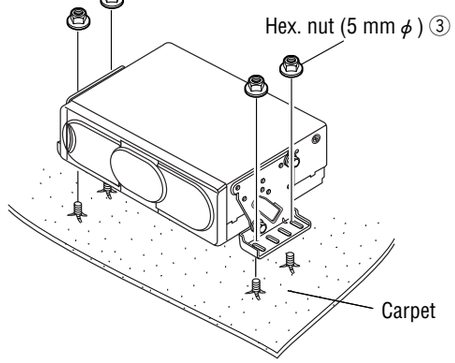


3 Use a cutter to cut a small cross in the carpet in accordance with the locations of the 5 mm ϕ bolts of the base brackets.



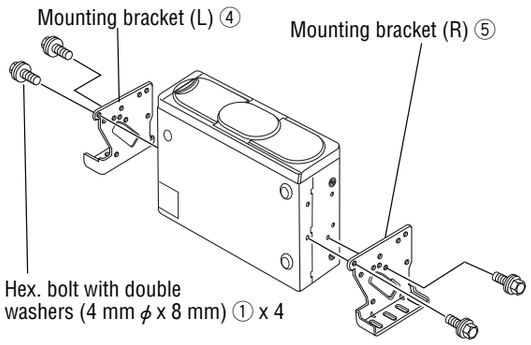
Fix both the base brackets and the double-faced adhesive tape to a mounting surface below the carpet.

4 Mount the unit on the carpet with four hex. nuts (5 mm ϕ).

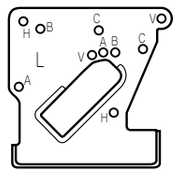


Typical vertical installation

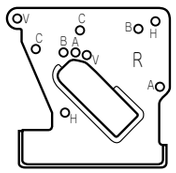
Mount the unit with the mounting bracket on either side with a hex. bolt with double washers (4 mm ϕ x 8 mm).



Relationship between mounting holes and angles



Mounting bracket (L)



Mounting bracket (R)

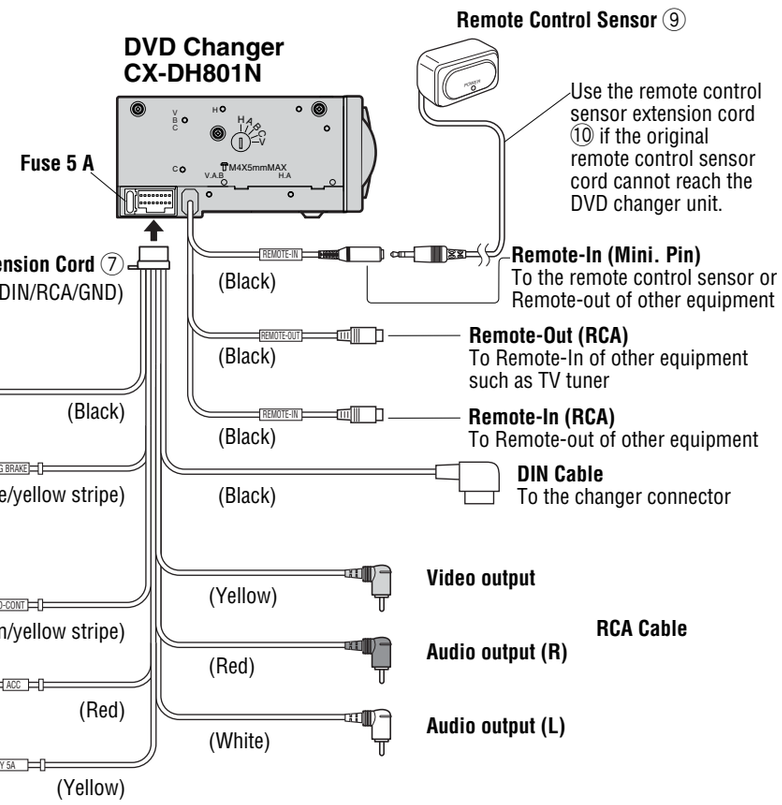
The relationship between mounting holes and angles of the mounting brackets (L and R) is illustrated above. Symbols corresponding to the mounting angles are marked near the respective holes. Select the correct holes in accordance with the mounting angles to be used.

Electrical Connection

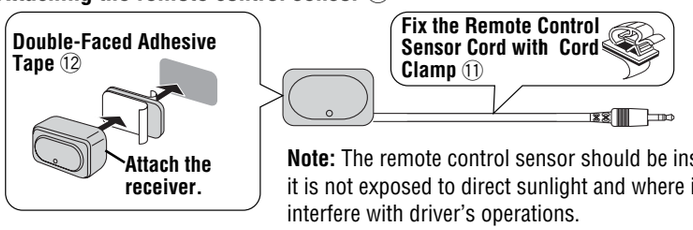
⚠Cautions:
- **This unit is designed for use in a car having a 12 V negative ground battery system.**
- **Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.**
- **Note that if your car has a driving computer or a navigation computer, disconnecting the cable from the battery may clear the memory.**
- **Install the cords avoiding the spots where the temperature can be extremely high.**

Overview

Note:
- **To prevent from damage to the unit, be sure to follow the wiring diagrams below.**
- **Be sure to fully plug in the connectors. Secure them with clamps and tapes.**
- **All other installation methods require the use of dedicated metal fittings. Consult with a qualified servicing engineer or your dealer if other methods are required.**



Attaching the remote control sensor ⑨

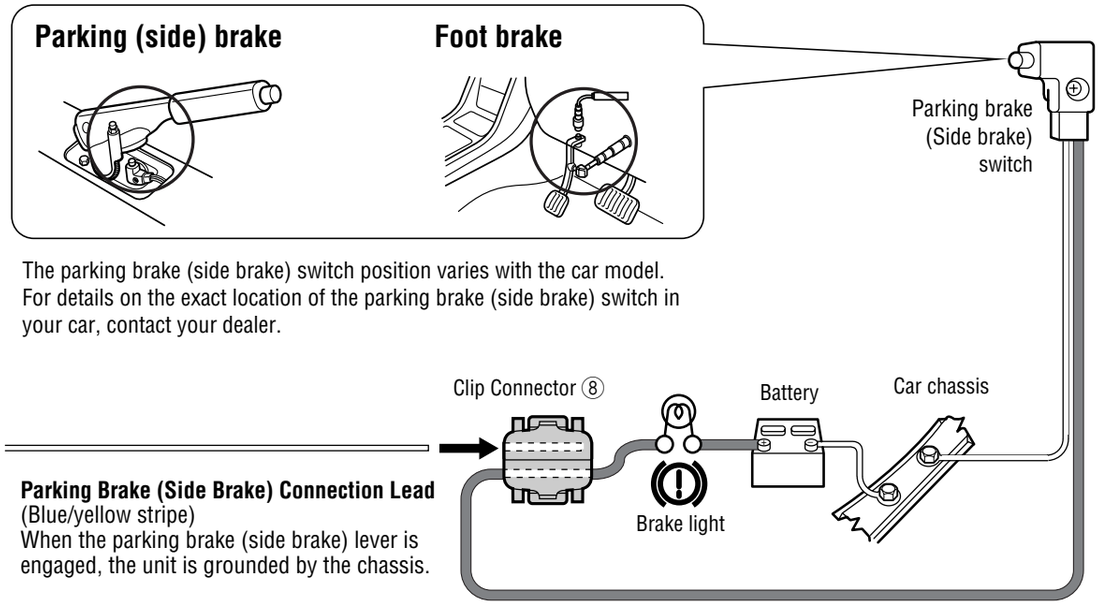


Note: The remote control sensor should be installed where it is not exposed to direct sunlight and where it does not interfere with driver's operations.

Electrical Connection (Continued)

Connecting the Parking Brake (Side Brake) Connection Lead

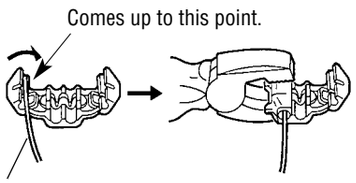
⚠**Caution:** For safety, be sure to ask your nearest professional installer to do this connection.



The parking brake (side brake) switch position varies with the car model. For details on the exact location of the parking brake (side brake) switch in your car, contact your dealer.

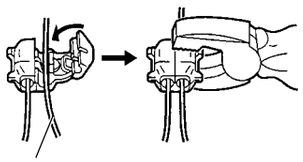
Parking Brake (Side Brake) Connection Lead
(Blue/yellow stripe)
When the parking brake (side brake) lever is engaged, the unit is grounded by the chassis.

❶ Attach a Clip Connector ⑧ to the end of the parking brake (side brake) connection lead.



Parking Brake (Side Brake) Connection Lead
(Blue/yellow stripe)

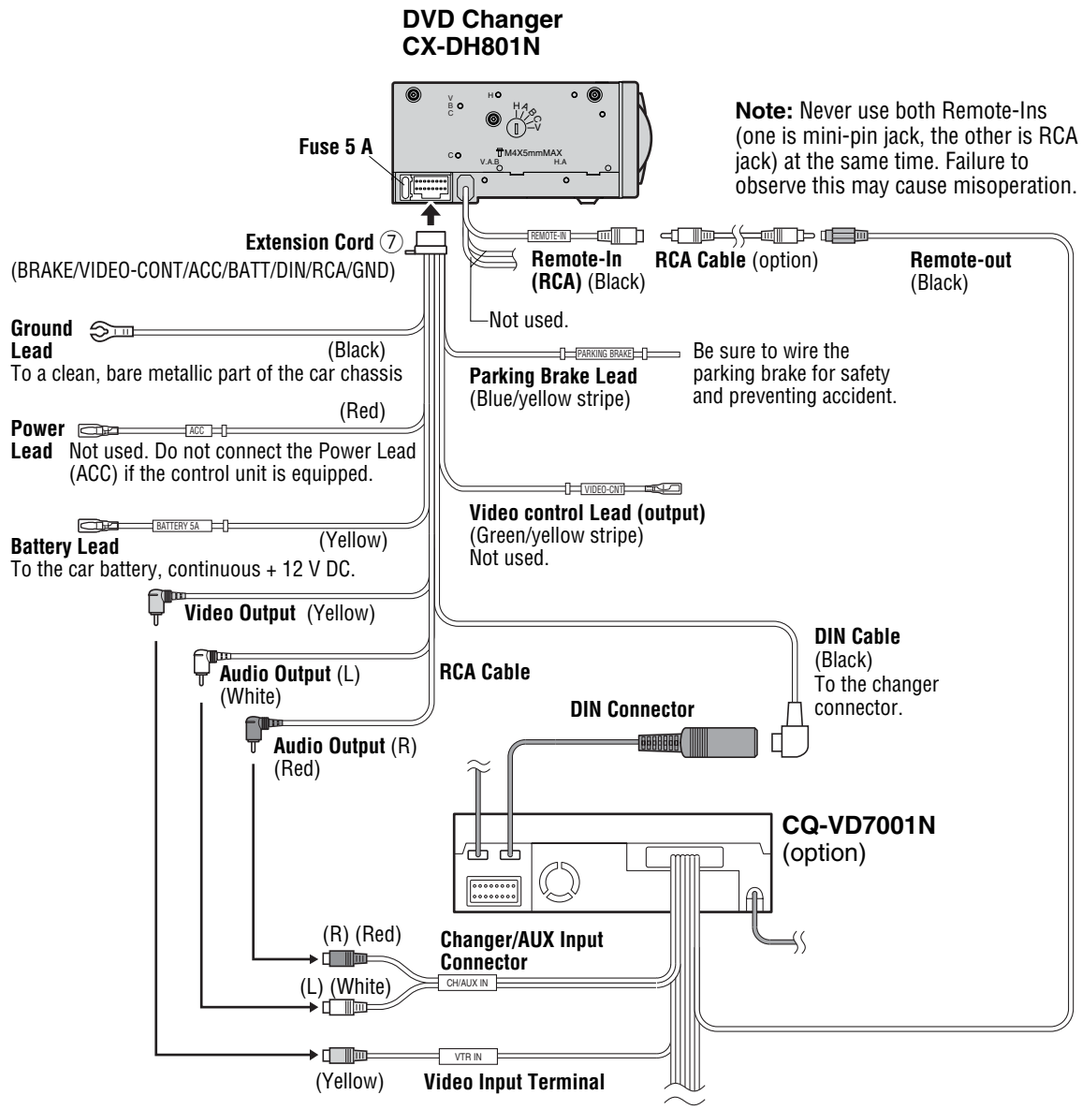
❷ The Clip Connector ⑧ is connected to the power source side lead of the parking brake (side brake) lever.



Power source side lead

Connection with DVD/monitor receiver (CQ-VD7001N)

Connection with DVD/monitor receiver with CD/DVD changer control (option, CQ-VD7001N)
Note: Refer to the operating instructions for the connected devices, in addition.

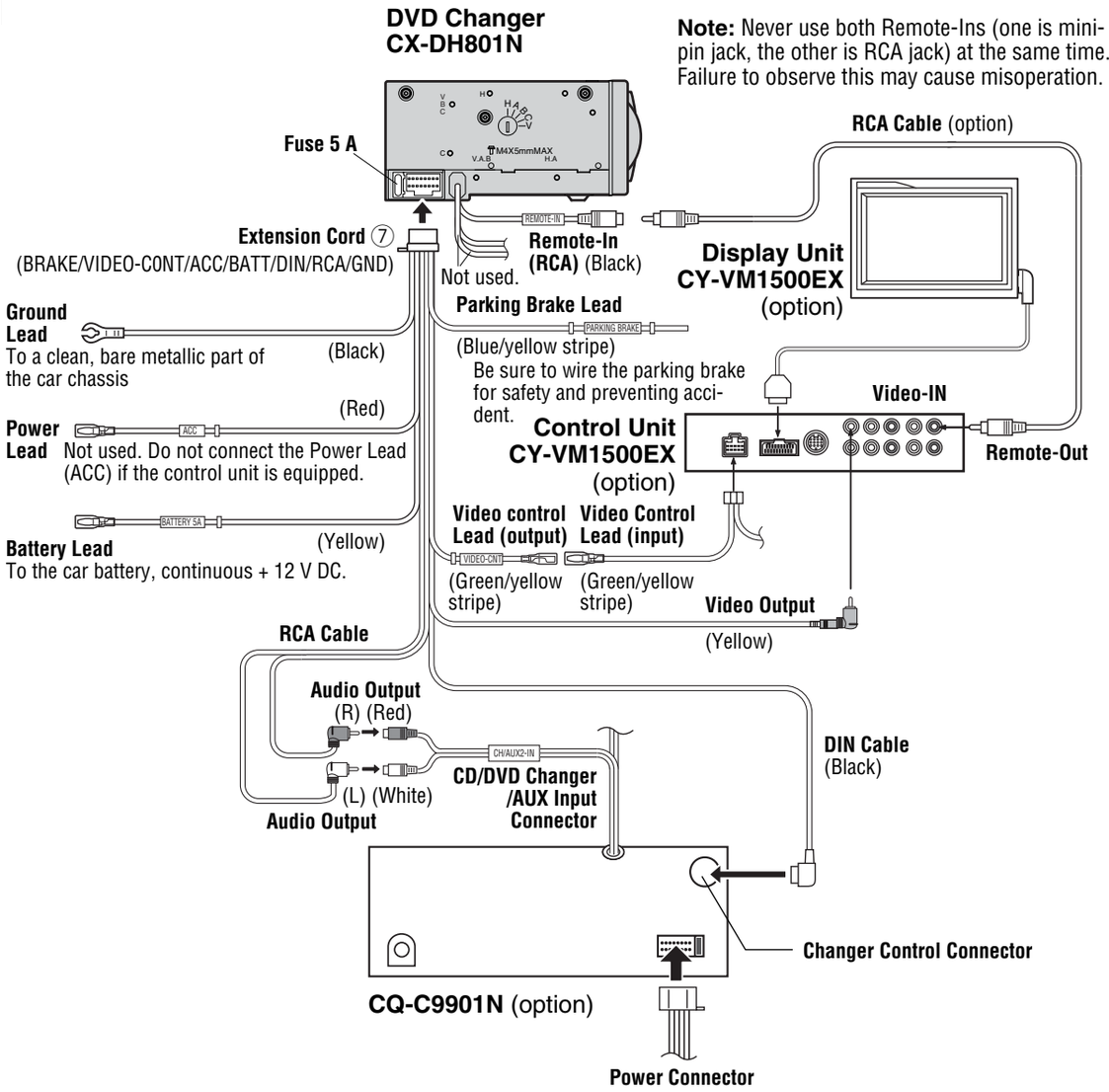


Note: Select **[VTR]** in **[CH INPUT]** of the **[INPUT/OUTPUT]** menu in advance if you would like to watch the display of the DVD changer with CQ-VD7001N (➡ page 8).

Electrical Connection (Continued)

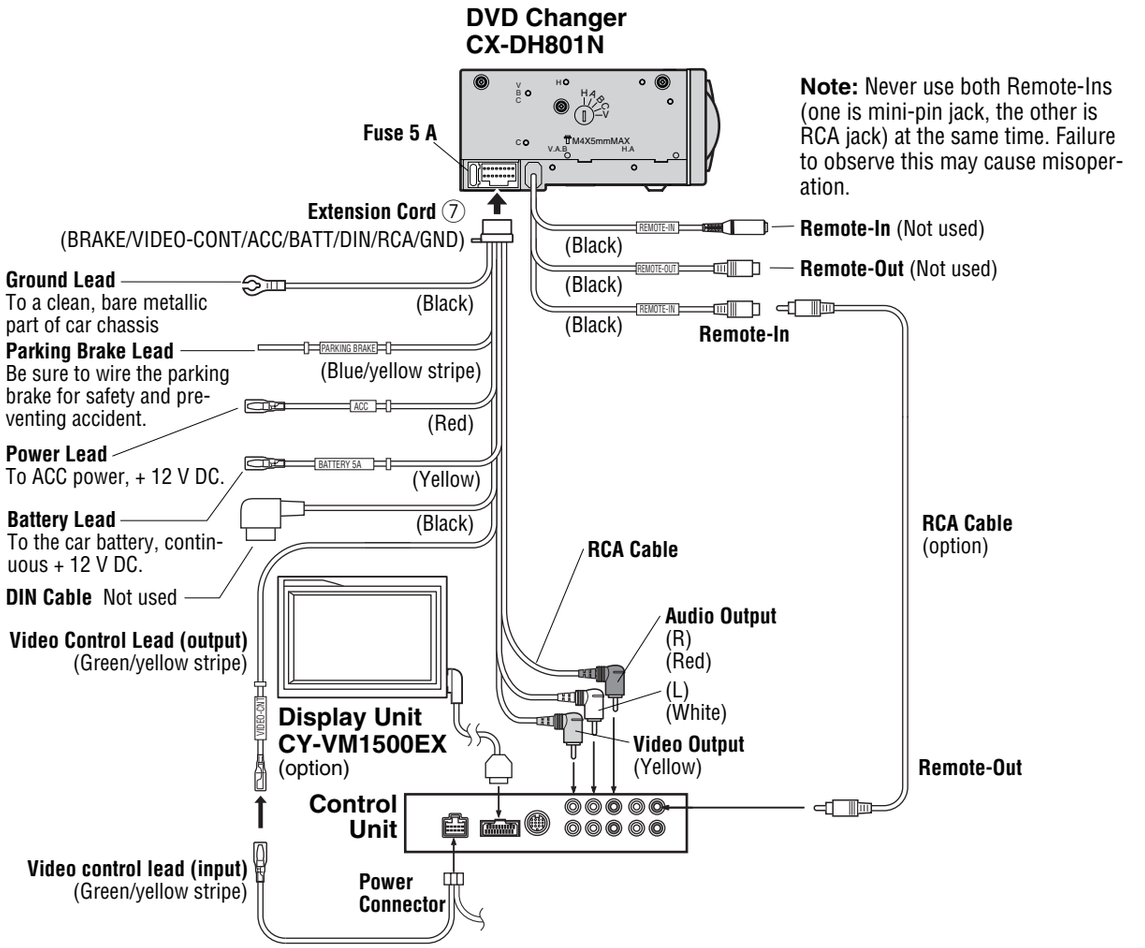
Connection with CD/Receiver (CQ-C9901N)

Connection with CD/Receiver with CD/DVD changer control (option, CQ-C9901N)
Note: Refer to the operating instructions for the connected devices, in addition.



Connection without Control Unit

Connections for the minimum combination (CY-VM1500EX, External Power Amplifier, option)
Note:
- Refer to the operating instructions for the connected devices, in addition.
- Connect the included remote control sensor to Remote-In in the case of no remote control sensor on the display unit.



Electrical Connection (Continued)

Connection with Digital Surround Processor (CY-AC300)

Connection with Digital Surround Processor (CY-AC300, option) and Power Amplifiers (option).
Note: Refer to the operating instructions for the connected devices, in addition.

Digital Surround Processor
CY-AC300 (option)

Operating Unit/Main Unit Connecting DIN Cord
(Supplied with CY-AC300)

CY-AC300 Main Unit (Rear)

SUB•W (MONO)
REAR
FRONT
ANALOG-IN
DIGITAL-IN
(Front)
L L
L R
R R

Optical Fiber Cable
(CA-LRD60, option)

Ground Lead
To a clean, bare metallic part of the car chassis
(Black)

Power Connector
(Supplied with CY-AC300)

(L) (R) (L) (R) (L) (R)

ACC (or IGN) Power Lead
To ACC power, +12 V DC
(Red)
Resistor (220 Ω)

Battery Lead
To the car battery, continuous +12 V DC
(Yellow)
Fuse (5 A)

RCA Cable (option)
(When a Y-shaped cord is used)
(L) (R)
(L) (R)

RCA Cable (option)
(L) (R)
(L) (R)

External Power Amplifier (option)*

External Power Amplifier (option)

(Black/green stripe)
CENTER
(Black)
Center Speaker Cord

AMP-CONT MAX 0.1A
(Blue/white stripe)

External Amplifier Control Power Lead

Amplifier Control Power Lead
(Blue/white stripe)
(Connect to AMP-CONT)

Amplifier Control Power Lead
(Blue/white stripe)

Center Speaker
EAB-CF2
(option)

Sub-Woofer
(option)

Left Speaker (Rear)
Right Speaker (Rear)
Left Speaker (Front)
Right Speaker (Front)
(option)

RCA Cable (option)

DVD Changer
CX-DH801N (rear)

DVD Changer
CX-DH801N (Left)

Fuse 5 A

Extension Cord ⑦
(BRAKE/VIDEO-CONT/ACC/BATT/DIN/RCA/GND)

Ground Lead
To a clean, bare metallic part of the car chassis
(Black)

Power Lead
(Red)
Not used. Do not connect the Power Lead (ACC) if the control unit is equipped.

Battery Lead
To the car battery, continuous + 12 V DC. (Yellow)

Video Output (Yellow)
Audio Output (L) (White)
Audio Output (R) (Red)
RCA Cable

Note: Never use both Remote-Ins (one is mini-pin jack, the other is RCA jack) at the same time. Failure to observe this may cause misoperation.

Remote-In (RCA) (Black)
Not used.
RCA Cable (option)

Parking Brake Lead
(Blue/yellow stripe)
Be sure to wire the parking brake for safety and preventing accident.

Remote-out
(Black)

Video control Lead (output)
(Green/yellow stripe) Not used.

DIN Cable (Black)
To the changer connector.

DIN Connector

Display Unit
CY-VM1500EX
(option)

Control Unit
CY-VM1500EX
(option)

CQ-VD7001N
(option)

(R) (Red)
(L) (White)
CH/AUX IN
Changer/AUX Input Connector

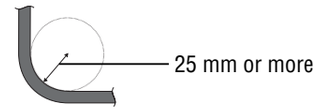
(Yellow)
VTR IN
Video Input Terminal

Video Output Terminal
VIDEO OUT
(Yellow)
(R) (Red)
(L) (White)

RCA Cable (option)

(L) (White)
Pre-Out Connector (front)
PRE-OUT FRONT
(R) (Red)

Note on handling optical fiber cable:
- Do not allow the cable to be damaged by getting it caught in the door, placing a heavy object on it, etc.
- Make sure that the cable is not strained when it is connected.
- Do not bend the cable sharply.
- Install the DVD changer in where it prevents the optical fiber connector from hitting its surroundings.



Note: Select **[VTR]** in **[CH INPUT]** of the **[INPUT/OUTPUT]** menu in advance if you would like to watch the display of the DVD changer with CQ-VD7001N (➡ page 8).

***** For use as a monaural amplifier (Bridge connection)

Specifications

General

Power Supply	:	12 V DC (11 V – 16 V) test voltage 14.4 V, negative ground
Current Consumption	:	Less than 2.0 A (at play mode)
Dimensions (W x H x D)		
DVD Changer Unit	:	231 x 73 x 168 mm
Disc Magazine Unit	:	121 x 35 x 128 mm
Weight		
DVD Changer Unit	:	1.5 kg
Disc Magazine Unit	:	0.2 kg
Disc Magazine Unit	:	VYQ3174 (included) holds 8 discs

DVD Changer Unit

Load Impedance	:	More than 10 kΩ
Output Voltage	:	2 V rms (1 kHz, 0 dB, at max.)
Output Impedance	:	600 Ω
Channel	:	2 channels
Frequency Response	:	5 – 20 000 Hz ±1 dB
Signal to Noise Ratio	:	95 dB
Total Harmonic Distortion	:	0.006 % (at 1 000 Hz)
Wow and Flutter	:	Below measurable limit
Light Source	:	Semiconductor laser
Wavelength	:	650 nm

Video section

Video Output	:	Video composite signal, 1.0 V [p-p], 75 Ω

Sales and Support Information

For UK and Ireland customers only.

Customer Care Centre

- For customers within the UK: 08705 357357
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK

- Order accessories and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday - Thursday 9:00am - 5:30pm, Friday 9:30am - 5:30pm. (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk.
- Most major credit and debit cards accepted.
- All enquiries, transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, so take a browse on our website for further details.

Digital audio output

Disc	Sound recording format	Optical digital audio output from connector
DVD	Dolby Digital	Dolby Digital bitstream (1 – 5.1 ch)
	DTS*	DTS bitstream (1 – 5.1 ch) (The analog portion is not output.)
	Linear PCM (44.1/48/88.2/96 kHz 16/20/24 bit)	Linear PCM (2 ch) (44.1/48/88.2/96 kHz 16/20/24 bit)
	MPEG 1	LPCM (48 kHz/16 bit)
	MPEG 2	LPCM (48 kHz/16 bit)
Video CD	MPEG 1	MPEG 1 bitstream
	Linear PCM	Linear PCM (2 ch) (44.1 kHz sampling/16 bit)
CD	Linear PCM	Linear PCM (2 ch) (44.1 kHz sampling/16 bit)
	DTS*	DTS bitstream (1 – 5.1 ch) (The analog portion is not output.)
MP3	MP3	Linear PCM (2 ch) (48 kHz sampling/16 bit)

*DTS only works with optical outputs.

Compression formats (**Recommendation:** "Note on MP3" on page 26)

Compression method	Bit rate	VBR	Sampling frequency
MPEG 1 audio layer 3 (MP3)	32 k – 320 kbps	YES	32, 44.1, 48 kHz
MPEG 2 audio layer 3 (MP3)	8 k – 160 kbps	YES	16, 22.05, 24 kHz

Note:

- Specifications and the design are subject to modification without notice due to improvements in technology.
- Some figures and illustrations on this manual may be different from real ones.